



## Rocky Flats Environmental Technology Site

### CHEMICAL CHARACTERIZATION PLAN (PACKAGE)

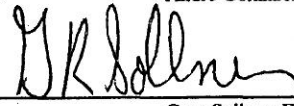
#### Group 6 CLOSURE PROJECT

(Buildings 280, S281, 281, 282, 284 Tank Pad, and T900D)

#### REVISION 0

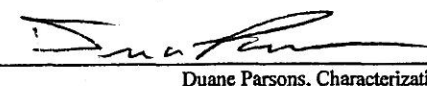
May 4, 2001


Prepared by:  Date: 5/4/01  
Andre Gonzalez, Industrial Hygiene

Prepared by:  Date: 5/4/01  
Greg Sollner, Environmental Compliance

Prepared by:  Date: 5/4/01  
Shaun Knapp, Environmental Compliance

Reviewed by:  Date: 5/8/01  
Steve Luker, Quality Assurance

Reviewed by:  Date: 5/8/01  
Duane Parsons, Characterization Coordinator

Approved by:  Date: 5/9/01  
Vern Guthrie, KH Closure Project Manager

DOES NOT CONTAIN  
OFFICIAL USE ONLY INFORMATION

Page 1 of 4

EX-1000862

IA-A-000862

Name/Org: Shynat/PRC Date: 11/5/08

Directed by: J.A. Neshkin M471.3-1

## CHEMICAL CHARACTERIZATION PACKAGE

**BUILDING(s):** Group 6 Cluster (280, S281, 281, 282, and 284 Tank Pad)

- \* This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.
- \* PDSP Data Quality Objectives were used to develop this characterization package.

**Instructions:**

1. Verify characterization activities are on the Plan-of-the-Day (POD).
2. Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual.
3. Verify personnel have appropriate training for the applicable tasks they will be performing.
4. Comply with RWP requirements, if applicable.
5. Comply with JHA and facility PPE requirements, as applicable.
6. Inform the Facility Manager, or designee prior to starting characterization activities.
7. Follow applicable characterization and sampling procedures.
8. Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs.
9. Coordination with the Environmental Restoration Program organization will be required to further characterize underneath facility foundations and slabs prior to removal.
10. Collect and maintain all characterization paperwork in the Project File(s), and all electronic data in the appropriate D&D RISS subdirectory.

ASBESTOS		
Sample Location	Estimated Number of Samples	Sample location and justification/rational
280 Area - All	8	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed. Suspect materials such as floor tile & mastic, drywall & ceiling tile, and base cove will be sampled for asbestos.
T900D	7	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed. Suspect materials such as floor tile & mastic, drywall & ceiling tile, and base cove will be sampled for asbestos.
Total Samples:	15	The exact sample numbers and locations cannot be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.

<b>BERYLLIUM</b>		
<b>Sample Location</b>	<b>Number of Samples (smears)</b>	<b>Sample location and justification/rational</b>
280 Area - All	0	Based on the 280 Area Historical Site Assessment Report and Interview Checklists, there is adequate historical and process knowledge to conclude that beryllium was not used or stored in these buildings. Therefore, sample is not required.
T900D	5 – biased	There is no documented supporting data or process history that proves beryllium was not used or stored in this building. Therefore, five biased samples will be obtained.
<b>Total Samples:</b>	5	Samples will be obtained at locations specified on sample map(s) in accordance with PRO-536-BCPR, Beryllium Characterization Procedure. Biased sample locations will correspond with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

<b>LEAD</b>		
<b>Sample Location</b>	<b>Number of Samples</b>	<b>Sample location and justification/rational</b>
Group 6 Cluster, all locations	0	Lead sampling is not required in the Group 6 Cluster. The only potential for a lead hazard would be in the paint. All paint will remain a part of the infrastructure during demolition and/or disposal, and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.
<b>Total Samples:</b>	0	

<b>RCRA/CERCLA CONSTITUENTS</b>		
<b>Sample Location</b>	<b>Number of Samples</b>	<b>Sample location and justification/rational</b>
280 Area - all	0	Based on the 280 Area Historical Site Assessment Report, Interview Checklists, and facility walkdowns, no hazardous activities resulting in a release of RCRA or CERCLA constituents occurred in these buildings, therefore sampling for RCRA/CERCLA constituents is not required. Note: These buildings contain components that may need to be managed as Regulated Waste during D&D activities including mercury thermostats, fluorescent light bulbs, circuit boards, and lead acid batteries. Care will need to be taken to ensure these wastes are managed properly.
280	0	Visual observation revealed two areas with small stains. Both stained areas are clearly in locations where vehicles have been parked just inside the vehicle access doors. Based upon the stain locations and the history of the facility, the stains are in all likelihood motor oil, and do not necessitate any samples.
T900D	0	According to historical documents, T900D was classified as a general use office facility and did not contain any hazardous chemicals greater than RQ quantities. Chemicals that may have been present for sample preservation would have likely been various types of acids which are commonly used for this purpose, and which would not present a historical RCRA hazard if spilled. Therefore, no sampling is necessary. All other indicated materials in the historical documents would have been office or janitorial type materials.
<b>Total Samples:</b>	0	

PCBs*		
Sample Location	Number of Samples	Sample location and justification/rational
280 Area - all locations	0	The 280 Area buildings were constructed in 1994 through 1997. 280 Area Historical Site Assessment Report, Interview Checklists, and facility walkdowns of this area indicate PCB contamination in the structural debris is not probable. Therefore, no sampling is required. These buildings will be disposed of as PCB Bulk Product Waste or sold for re-use.
T900D	0	T900D Historical Site Assessment Report, Interview Checklists, and facility walkdowns of this building indicate no potential for PCB contamination; therefore no sampling is required. This building will be disposed of as PCB Bulk Product Waste or sold for re-use.
<b>Total Samples:</b>	0	Note: These buildings do contain materials that may need to be managed as Regulated Waste during D&D activities, such as light ballasts. Care will need to be taken to ensure these wastes are managed properly.

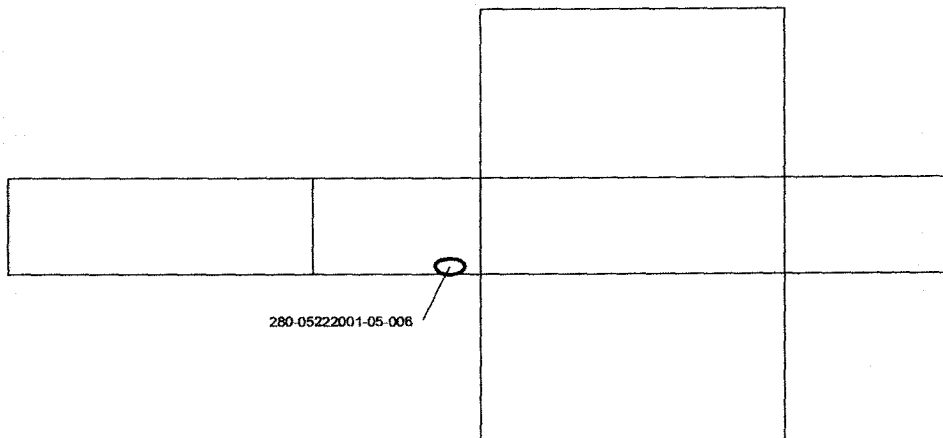
- \* PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.

# PRE-DEMOLITION SURVEY

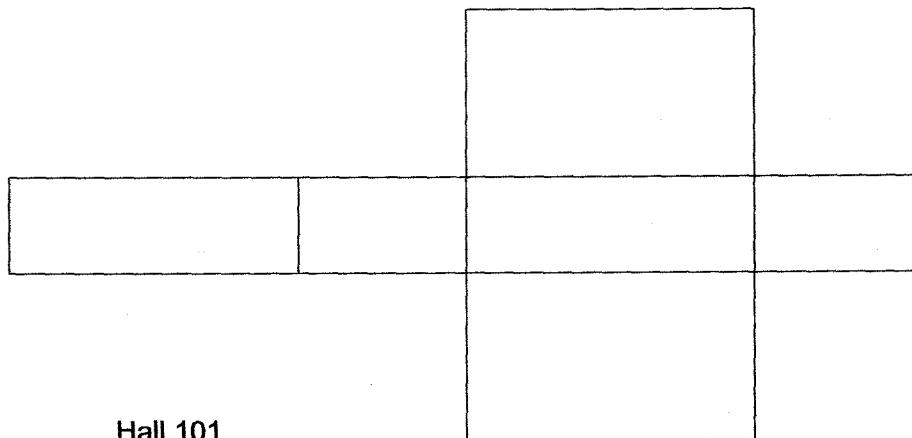
Survey Area: A Survey Unit: GR6-A-001 C Classification: N/A  
 Building: Group 6 (280 Area)  
 Survey Unit Description: Interiors of B280, B281, S281, B282,  
 & associated sidewalk & pads

## Bldg 280 Interior

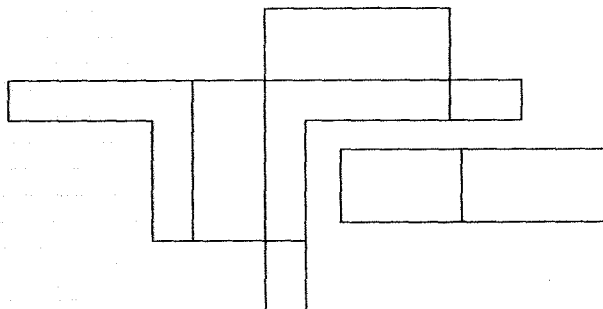
### Room 108



### Room 109



### Hall 101



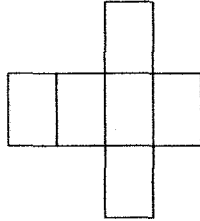
<b>SURVEY MAP LEGEND</b> (H) Asbestos Sample Location (B) Beryllium Sample Location (L) Lead Sample Location (C) RCRA/CERCLA Sample Location (P) PCBs Sample Location	Neither the United States Government nor Kaiser Hill Co., nor DynCorp LLC, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. ■ Open/Inaccessible Area □ Area in Another Survey Unit	0 FEET 30 0 METERS 10 1 inch = 24 feet 1 grid sq. = 1 sq. m.	U.S. Department of Energy Rocky Flats Environmental Technology Site Prepared by: GHS Dept. 303-968-770 Prepared for: <b>DynCorp</b> THE ART OF TECHNOLOGY MAP ID: fv280181-0507 April 28, 2001
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# **PRE-DEMOLITION SURVEY**

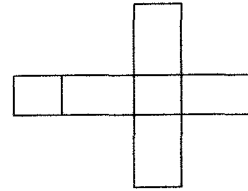
Survey Area: A      Survey Unit: GR6-A-001      C      Classification: N/A  
 Building: Group 6 (280 Area)  
 Survey Unit Description: Interiors of B280, B281, S281, B282,  
 & associated sidewalk & pads

## **Building 280**

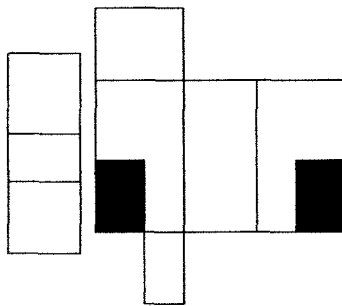
**Room 107**



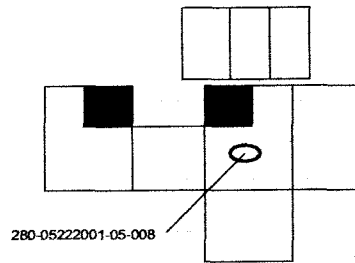
**Room 105**



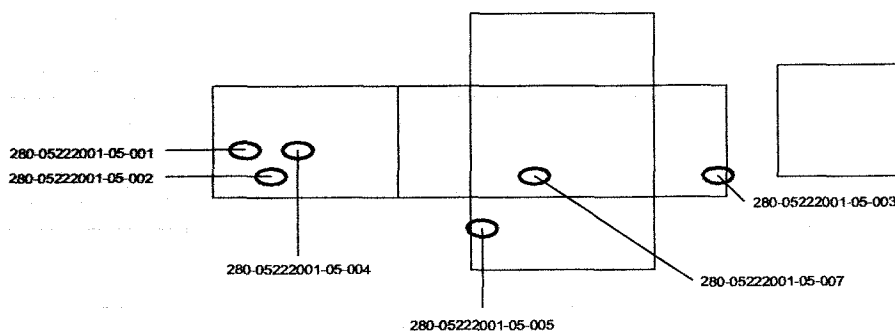
**Room 106**



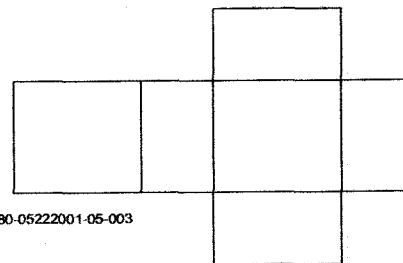
**Room 104**



**Room 102**



**Room 103**

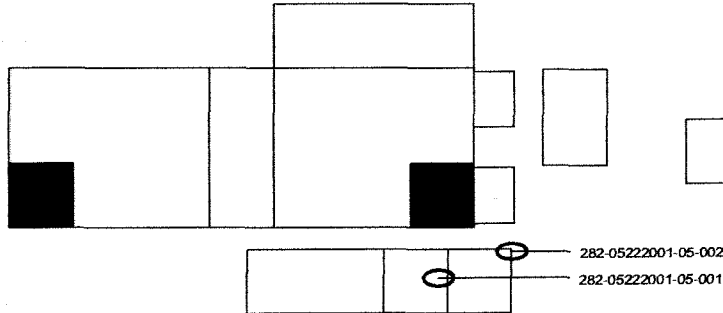


<p><b>SURVEY MAP LEGEND</b></p> <ul style="list-style-type: none"> <li>Asbestos Sample Location</li> <li>Beryllium Sample Location</li> <li>Lead Sample Location</li> <li>RCRA/CERCLA Sample Location</li> <li>PCBS Sample Location</li> </ul>	<p>Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&amp;ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.</p> <p>Open/Inaccessible Area</p> <p>Area in Another Survey Unit</p>	<p>0      30              FEET</p> <p>0      10              METERS</p> <p>1 inch = 24 feet    1 grid sq. = 1 sq. m.</p>	<p>U.S. Department of Energy              Rocky Flats Environmental Technology Site</p> <p>Prepared by: GRS Dept. 303-968-7770 Prepared for:</p> <p><b>DynCorp</b>              THE ART OF TECHNOLOGY</p> <p>MAP ID: FV2801/01-9907      April 28, 2001</p>
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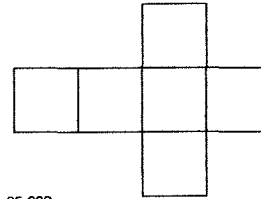
# **PRE-DEMOLITION SURVEY**

Survey Area: A      Survey Unit: GR6-A-001      C      Classification: N/A  
 Building: Group 6 (280 Area)  
 Survey Unit Description: Interiors of B280, B281, S281, B282,  
 & associated sidewalk & pads

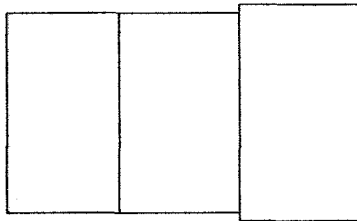
**Building 282 Interior**



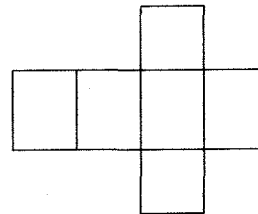
**Room 113**



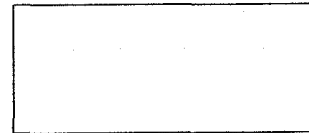
**Building S281 Interior**



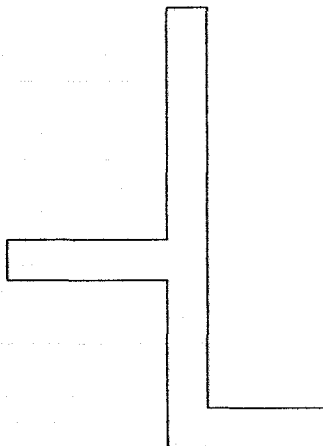
**Building 281 Interior**



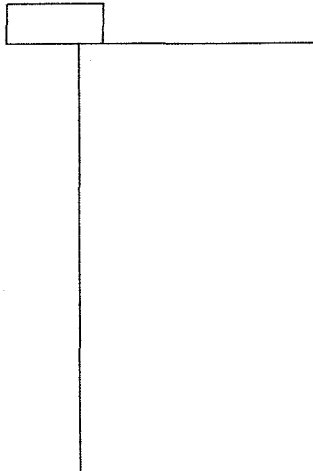
**Bldg 280 North Pad**



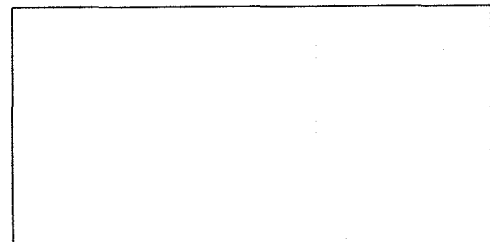
**Bldg 280 West Walkway**



**Bldg 280 East Pad**



**Bldg 280 South Pad**



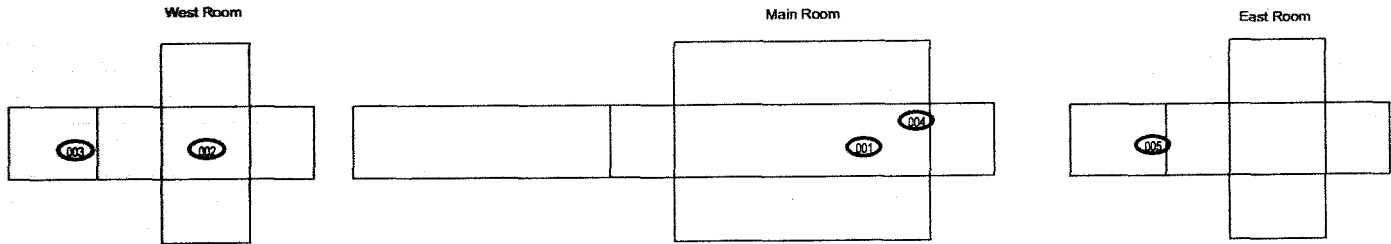
<b>SURVEY MAP LEGEND</b> (H) Asbestos Sample Location (A) Beryllium Sample Location (M) Lead Sample Location (R) RCRA/CERCLA Sample Location (P) PCBs Sample Location	Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. ■ Open/Inaccessible Area □ Area in Another Survey Unit	0      FEET      30  0      METERS      10  1 inch = 24 feet    1 grid sq. = 1 sq. m.	U.S. Department of Energy Rocky Flats Environmental Technology Site Prepared by: GHS Dept. 303-966-770 <b>DynCorp</b> THE ART OF TECHNOLOGY MAP ID: N280101-0507 April 28, 2001
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# PRE-DEMOLITION SURVEY

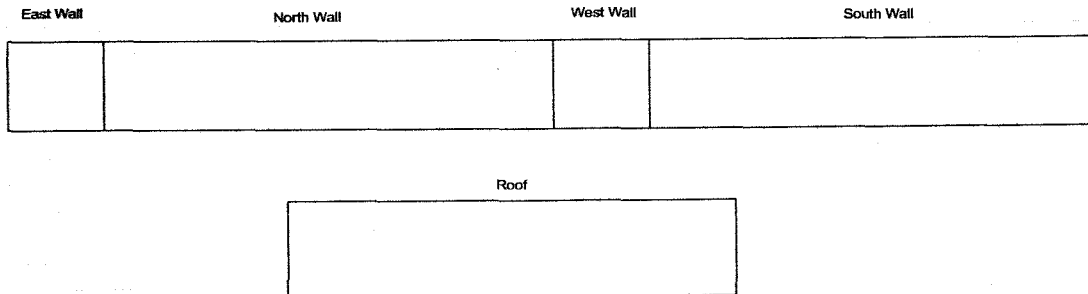
Survey Area: C Survey Unit: GR6-C-003 Classification: N/A  
 Building: Group 6 (T900D)  
 Survey Unit Description: Interior & Exterior of T900D  
 Total Area: 415.2 sq. m. Total Floor Area: 45.7 sq. m.

## Building T900D Interior

000 T900D-05222001-05-001 Thru 005



## Building T900D Exterior



<b>SURVEY MAP LEGEND</b> # Asbestos Sample Location ▲ Beryllium Sample Location # Lead Sample Location ◆ RCRA/CERCLA Sample Location # PCBs Sample Location	Neither the United States Government nor Kvaerner H&E Co., nor DynCorp I&ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.	<div style="display: flex; justify-content: space-around;"> <div>             0 FEET 30                0 METERS 10           </div> <div>             1 inch = 24 feet 1 grid sq. = 1 sq. m.           </div> </div>	U.S. Department of Energy Rocky Flats Environmental Technology Site Prepared by: G&S Dept. 303-966-770 Prepared for: <b>DynCorp</b> THE ART OF TECHNOLOGY MAP ID: fv2001/01-0523 April 30, 2001
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# RESERVOIRS ENVIRONMENTAL SERVICES, INC.

INVLAP Accredited Laboratory # 101806  
TDK Licensed Laboratory # 30-0131

TABLE 1. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 71475-1  
Client: Kaiser-Hill  
Client Project Number / P.O.: D1D0882, EFD0320  
Client Project Description: T901D Bulk Asbestos  
Date Samples Received: May 24, 2001  
Analysis Type: PLM Short Report, Bulk  
Turnaround: 3-5 Day

Analyst: PPK

KE  
Data QA

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Visual Estimate (%)		Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Vitreous		
T900D-05222001-05001	EM 544398	A	White linoleum	100		ND	0	100
T900D-05222001-05002	EM 544399	A	White linoleum	100		ND	0	100
T900D-05222001-05003	EM 544400	A B	White granular paint White drywall	5 95		ND ND	0 15	100 85
T900D-05222001-05004	EM 544401	A B	White granular paint White drywall	5 95		ND ND	0 15	100 85
T900D-05222001-05005	EM 544402	A B	White granular paint White drywall	10 90		ND ND	0 15	100 85

ND = None Detected  
TR = Trace, < 1% Visual Estimate

Trm-Acl = Tremolite-Actinolite



KAISER-IHL  
COMPANY  
ANALYTICAL SERVICES DIVISION

## FAX COVER SHEET PRELIMINARY DATA REPORTS

RIN NUMBER: 0110082, 883

FROM: SHELLY JOHNSON

PHONE: (303) 966-6401

FAX: (303) 966-8345

TO:

Andre Gonzalez DAVE

FAX:

6678

PHONE:

\_\_\_\_\_

NUMBER OF PAGES, INCLUDING COVER SHEET: \_\_\_\_\_

Please contact \_\_\_\_\_ if the fax is not received in its entirety.  
(phone number)

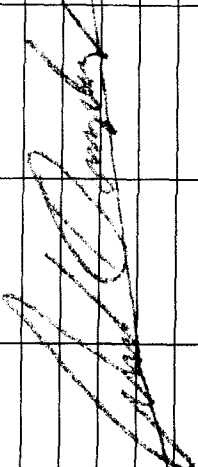
If the accompanying data is stamped preliminary it is because the final data package has not been received and validated or verified. Until the data is validated or verified it must be considered preliminary. Final data is usually not received until 30 days after the laboratory has received the sample. Verification or validation is completed a short time following receipt of the final data package. You will be sent a copy of the verification or validation report, which you should review. If qualifiers have been attached to individual results they may affect the way that you use the data. If you have any question please contact your Analytical Services Project Lead, do not contact the laboratory directly.

# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

0100882  
JH023006

Name of Originator: <u>Andie Gonzalez</u> Title: <u>JH+S</u>			Bldg/Ext: <u>146/4477</u>		Date: <u>5/24/01</u>	Page 1 of 1					
SAMPLE NUMBER Bldg/Y/M/D/P#/S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number			
T9000-05222001-05-001	Asbestos				3						
T9000-05222001-05-002											
T9000-05222001-05-003											
T9000-05222001-05-004											
T9000-05222001-05-005											
											
Relinquished by		Time/Date		Relinquished by		Time/Date		Received by		Time/Date	
Relinquished by		Time/Date		Relinquished by		Time/Date		Received by		Time/Date	
Relinquished by		Time/Date		Relinquished by		Time/Date		Received by		Time/Date	
Relinquished by		Time/Date		Relinquished by		Time/Date		Received by		Time/Date	
Report and Billing Instruction				Analysis Request				Seal# (Release #)			
Kaiser-Hill <input checked="" type="checkbox"/> Verbal To: <u>A Gonzalez</u> RMRS <input type="checkbox"/> Fax To: <u>6628</u> SSOC <input type="checkbox"/> Report To: <u>KH</u> DynCorp <input type="checkbox"/> Bill To: <u>KH</u> WSI <input type="checkbox"/> P.O.#/Release: <u>EF040320</u> Lab: <u>6628</u>				<input type="checkbox"/> Standard Service <input checked="" type="checkbox"/> Industrial Hygiene Sample <input type="checkbox"/> Rush <input type="checkbox"/> Asbestos Samples <input type="checkbox"/> 24 Rush <input type="checkbox"/> 2 Rush <input type="checkbox"/> Other				Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken Signature: <u>Andie Gonzalez</u> Comments: <u>146/4477</u> <u>0100882</u> <u>JH 5/24/01</u>			

White - Return to Originator    Yellow - Lab Copy    Green - Sample Custodian    Blue - Originator

5/22/2021

T900D

Trailer with sheet metal siding, fiberglass, batt insulated, wood stud frame, and wood paneling on interior. Floor is vinyl (rubber!) linoleum with no backing or underlayment. Sub-floor is of construction grade plywood. Ceiling is drywall, no joint compound, with a white texture coating. Sub-board is wood without adhesive, only nails. Roof was not accessible today.

2801 Youngfield St., Ste. 300  
Golden, CO 80401  
Phone: (303) 275-3470  
Fax: (720) 489-2832

CLIENT NAME:

LOCATION: T900D

SAMPLE DATE: 05/22/2001 SAMPLED BY: David Burgess

PROJECT NUMBER:

[illegible]

# RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accredited Laboratory # 101896  
TDHL Licensed Laboratory # 30-0134

TABLE 1 PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 71474-1  
Client: Kaiser-Hill  
Client Project Number / P.O.: 01D0843, EED90J20  
Client Project Description: B280 & B282 Bulk Asbestos  
Date Samples Received: May 24, 2001  
Analysis Type: PLM Short Report, Bulk  
Turnaround: 3-5 Day

KC  
Data QA

Analyte: RSW

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Visual Estimate (%)		Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual		
280-05222001-05-001	EM 544388	A	Tan resinous material w/silver foil	100		ND	3	97
280-05222001-05-002	EM 544389	A	White & tan ceiling tile	100		ND	65	35
280-05222001-05-003	EM 544390	A B	White mud w/beige paint Tan & pink drywall	4 96		ND ND	TR 10	100 90
280-05222001-05-004	EM 544391	A	White & tan ceiling tile	100		ND	65	35
280-05222001-05-005	EM 544392	A B C D	White plaster Tan & white fibrous material Tan mastic Gray cove base	2 3 8 87		ND ND ND ND	TR 90 0 0	100 10 100 100
280-05222001-05-006	EM 544393	A B	White mud w/gray paint Tan & pink drywall	5 95		ND ND	TR 10	100 90
280-05222001-05-007	EM 544394	A B	Yellow mastic Beige & multi-colored tile	3 97		ND ND	TR 0	100 100

ND = None Detected  
TR = Trace, < 1% Visual Estimate

Trans-Act = Trans-Act-Air-dike

# RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accredited Laboratory # 101896  
TDH Licensed Laboratory # 20-0134

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 77474-1  
Client: Kaiser-Hill  
Client Project Number / P.O.: 01D0883, EFD90320  
Client Project Description: B280 & B282 Bulk Asbestos  
Date Samples Received: May 24, 2001  
Analysis Type: PLM Short Report, Bulk  
Turnaround: 3-5 Day

ke  
Data QA

Analyst: RSW

Client Sample Number	Lab ID Number	Physical Description	Sub Part (%)	Asbestos Components (%)				Non-Fibrous Components (%)			
				A	B	C	TR	Asbestos Fibers	Non-Fibrous Components	Estimate (%)	TR
280-05222001-05-008	EM 544395	Yellow mastic	4	A				TR		ND	100
		Beige & multi-colored tile	96	B				TR		ND	100
282-05222001-05-001	EM 544396	White tape	5	A				95		ND	5
		White mud w/gray paint	7	B				TR		ND	100
		Tan & pink drywall	88	C				10		ND	90
282-05222001-05-002	EM 544397	White fibrous material	1	A				90		ND	10
		Tan mastic	5	B				9		ND	100
		Gray cove base	94	C				9		ND	100

ND = None Detected  
TR = Trace, < 1% Visual Estimate

Therm-Act = Tremolite-Actinolite

NVLAQ LAB NO. 101826  
AIHA LAB I.D. 101533

ASBESTOS-TXM, PCM, PLM, SEM  
METALS - AA, FLAME/FURNACE  
AIRBORNE PARTICLES  
SPECIAL PARTICLE ANALYSIS

## RESERVOIRS ENVIRONMENTAL

SERVICES, INC.

Fax Transmittal

RES Job: 77475

To: Chuck Hoelzel

Company: DAISY-HILL

Fax Number: 303 966 8345, 3578, 7991

From: DANIEL COLBERT

Date: 5-29-01

Number of Pages: 1 (excluding cover sheet)

Message: \_\_\_\_\_  
\_\_\_\_\_  
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Please call (303) 830-1986 or 866 RESIENV if transmission is incomplete.

16



NVLAP  
LAB NO. 101896  
AIHA LAB ID. 101533

ASBESTOS-TEM, PCM, PLM, SEM  
METALS - AA, FLAMETURNACE  
AIRBORNE PARTICLES  
SPECIAL PARTICLE ANALYSIS

**RESERVOIRS ENVIRONMENTAL****SERVICES, INC.***Fax Transmittal*RES Job: 77474To: Chuck HoelzelCompany: DAISER-HILLFax Number: 303-966-8345, 3578, 7991From: DARREL COLBERTDate: 5-29-01Number of Pages: 2 (excluding cover sheet)

Message: \_\_\_\_\_

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Please call (303) 930-1986 or 866 RESIENV if transmission is incomplete.

**FOOTHILLS ENVIRONMENTAL, INC.**  
Industrial Hygiene, Safety, & Environmental Services

2801 Youngfield St., Ste. 300  
Golden, CO 80401  
Phone: (303) 275-3470  
Fax: (720) 489-2832

**ASBESTOS BULK SAMPLING FORM**

CLIENT NAME: \_\_\_\_\_

LOCATION: **280**

SAMPLE DATE: \_\_\_\_\_

SAMPLED BY: \_\_\_\_\_

PROJECT NUMBER: \_\_\_\_\_

Sample Number	Sample Type	Sample Description	Sample Location
280-05222001-05-001	misc.	duct tap w/ white compound, silver reflective tape	Room 102
280-05222001-05-002	C.T.	2x4 white speckle	Room 102
280-05222001-05-003	drywall	drywall & tape joint compound	Room 102
280-05222001-05-004	C.T.	2x4 white speckle	Room 102
280-05222001-05-005	baseboard	gray baseboard w/ brown plastic	Room 102
280-05222001-05-006	drywall	drywall & tape joint compound	Room 108
280-05222001-05-007	F.T.	12x12 white w/ turquoise specks w/ yellow plastic	Room 102
280-05222001-05-008	F.T.	" " " " " "	Room 104
280-05222001-05-009	drywall	drywall & t.j.c.	Main Room
282-05222001-05-002	baseboard	gray baseboard	

[illegible]

White - Return to Originator	Yellow - Lab Copy	Green - Sample Custodian	Blue - Originator

# PRE-DEMOLITION SURVEY

Survey Area: C      Survey Unit: N/A      Classification: N/A  
 Building: Group 6 (T900D)  
 Survey Unit Description: Interior & Exterior of T900D  
 Total Area: 415.2 sq. m.      Total Floor Area: 45.7 sq. m.

## Building T900D Interior

T900D-05302001-05-100 Thru 104

West Room

Main Room

East Room

East Wall






North Wall

West Wall


South Wall


Roof

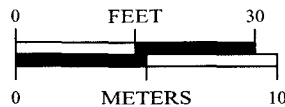
### SURVEY MAP LEGEND

-  Asbestos Sample Location
-  Beryllium Sample Location
-  Lead Sample Location
-  RCRA/CERCLA Sample Location
-  PCBS Sample Location

Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.

 Open/Inaccessible Area

 Area in Another Survey Unit



1 inch = 24 feet 1 grid sq. = 1 sq. m.

U.S. Department of Energy  
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707 Prepared for:  
**DynCorp**  
THE ART OF TECHNOLOGY

KAISER HILL  
ENVIRONMENTAL  
TECHNOLOGY

MAP ID: fv2001/01-0523

April 30, 2001



[illegible]



Johns Manville Corporation  
10100 West Ute Avenue (80127)  
P.O. Box 625005  
Littleton, CO 80162-5005  
Tel: (303) 978-3724

## COVER PAGE

June 04, 2001

Shelly Johnsen  
Rocky Flats Environmental Technology Site  
P.O. Box 464, Bldg. 881  
Golden, CO 80402-0464

**Laboratory Report ID:** 01060109  
**Laboratory Name:** Johns Manville IH Lab  
**Subcontract Number:** KH800188  
**RIN:** 01D0892  
**Requestor:** David Babbs  
**P.O./Charge Code:** EFD73420

Dear Ms. Johnsen:

The Johns Manville Industrial Hygiene Laboratory has performed the following analytical testing services as requested. The results were calculated based upon the information supplied on the submission form. All laboratory data have been filed and are available upon request. The Johns Manville Laboratory is accredited by the American Industrial Hygiene association (AIHA) in the industrial hygiene program (Certificate #056), and participates in the AIHA ELPAT program.  
If you have any questions, please call (303) 978-2584.

I certify that this electronic image, and all hardcopies produced from this image, accurately represents the data and is in compliance with the RFETS specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Sincerely,

**Marilyn Andrews**  
Manager of Analytical Services  
June 04, 2001

June 04, 2001

**Laboratory Report ID:** 01060109  
**Laboratory Name:** Johns Manville IH Lab  
**Subcontract Number:** KH800188  
**RIN:** 01D0892  
**Requestor:** David Babbs  
**P.O./Charge Code:** EFD73420

**Scope of Work:**

Bottle Number(s)	Customer Number(s)	Laboratory ID Number(s)	Line Item Code	Sample Matrix	Instrument Run
01D0892-001.001	T900D0530200105100	01060109-001	NR01A001	WIPE	QU010601-H
01D0892-002.001	T900D0530200105101	01060109-002	NR01A001	WIPE	QU010601-H
01D0892-003.001	T900D0530200105102	01060109-003	NR01A001	WIPE	QU010601-H
01D0892-004.001	T900D0530200105103	01060109-004	NR01A001	WIPE	QU010601-H
01D0892-005.001	T900D0530200105104	01060109-005	NR01A001	WIPE	QU010601-H





Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
FINAL SAMPLE				Disposal Method (e.g., returned to customer, disposed of per lab procedure, used in analytical process)			
DISPOSITION				Disposed By			
Date/Time							

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## NARRATIVE

The laboratory did not encounter any problems or questions associated with the receipt of samples into the laboratory. All samples identified on the Chain-of-Custody (COC) form were received and accepted in good condition with tamper-resistant seals intact. (1.d, 4.b, 4.e)

Whatman 4 or Whatman 41 swipe samples were submitted in this project and analyzed for the identification and quantitation of beryllium in accordance with Line Item Code (LIC), NR01A001. The methodology does not define any required specific holding times for the compound on the sampling media. Results of the sample analyses were generated and reported by the specified turn-around time (TAT). (4.f, 5.6, 5.f, 6.b.7)

The laboratory preparation of samples in this project was performed following laboratory Standard Operating Procedure (SOP), IH M-1.02, Revision N. Additional references to the preparation technique of this sample type are addressed in EPA Method, 3015A and CEM Application Procedure, MS-9. The samples were prepared using the CEM Microwave Sample Preparation System, Model MDS 2000. The instrumental sample analysis for these samples follows SOP, IH M-1.04, Revision N, which covers the analytical procedure outlined in OSHA method, ID-125G. Start-up and calibration of the Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) instrument are performed following manufacturer's instructions and are addressed in SOP, IH M-1.03, Revision N. (5.a)

Results of all calibration verifications (initial and continuing), method blanks (calibration and matrix), Laboratory Control Samples (LCSs), Laboratory Control Sample Duplicates (LCDs) and internal QA/QC program monitoring standards for this analytical batch are within acceptable limits as specified in Statement of Work (SOW) modules, GR01-B.3 and NR01-A. (5.c, 5.d.2, 5.d.3, 6.b.2-6)

The internal quality control procedures for statistical monitoring of analytical data to ensure the production of quality results with continuing high validity are addressed in the JMTC IH Laboratory Quality Assurance Manual, Section 10.0. Results of all method-specific QC assessments for this analytical batch are within acceptable limits in accordance with SOW modules, GR01-B.3 and NR01-A. (5.c, 6.b.1)

The Instrument Detection Limit (IDL) has been determined to be 0.00028 µg/ml using the ICP-AES instrument, Perkin Elmer - Optima model 3000DV. Method Detection Limit (MDL) determinations are performed in accordance with the EPA Method contained in 40 CFR Part 136, Appendix B. The MDL for beryllium on the Whatman swipe matrix by ICP-AES has been determined to be 0.012 µg/swipe. These values meet the required detection limits for SOW module, NR01-A. (5.d.1) The sample batch did not require any sample re-analyses due to dilutions or any anomalies. (5.d) The qualifiers used for the results page are "U" for non-detect and "J" for levels greater than the MDL, but less than the Reporting Limit.

The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate N. 056) and continues to rate proficient within the Proficiency Analytical Testing (PAT) program. This program is designed for laboratories involved in analyzing samples taken in the workplace environment. The JMTC IH Analytical Laboratory is also accredited in the Environmental Lead Laboratory Accreditation Program (ELLAP), which is recognized by the EPA National Lead Laboratory Accreditation Program (NLLAP). This program accredits and monitors performance of laboratories testing for lead in environmental samples such as paint, soil, dust wipes and air. (5.a)

June 04, 2001

Laboratory Report ID 01060109  
Laboratory Name: Johns Manville IH Lab  
Subcontract Number: KH800188  
RIN: 01D0892  
Requestor: David Babbs  
P.O./Charge Code: EFD73420

## QUICK RESULTS SUMMARY

Customer Number	Laboratory ID Number	Requested Analysis	Reporting Limit	CONCENTRATION			Q	Air Vol or Time	Air Concentration
				Back Section	Front Section	Total			
T900D0530200105100	01060109-001	Beryllium	0.1 µg			<0.1 µg	U		
T900D0530200105101	01060109-002	Beryllium	0.1 µg			<0.1 µg	U		
T900D0530200105102	01060109-003	Beryllium	0.1 µg			<0.1 µg	U		
T900D0530200105103	01060109-004	Beryllium	0.1 µg			<0.1 µg	U		
T900D0530200105104	01060109-005	Beryllium	0.1 µg			<0.1 µg	U		

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June 04, 2001

Laboratory Report ID 01060109  
Laboratory Name: Johns Manville IH Lab  
Subcontract Number: KH800188  
RIN: 01D0892  
Requestor: David Babbs  
P.O./Charge Code: EFD73420

## QC RESULTS SUMMARY

QC Parameter	QC Item Type	Compound	Expected Recovery	Actual Recovery	Percent Recovery	QC Sample ID	Date Analyzed	Instrument Run
Preparation Blank	PB1	Beryllium	< 0.1 µg	<0.1 µg	N/A		6/4/01	QU010601-H
Matrix Blank	MB1	Beryllium	< 0.1 µg	<0.1 µg	N/A		6/4/01	QU010601-H
Matrix Blank Spike	MS1	Beryllium	5.0 µg	5.32 µg	106.4		6/4/01	QU010601-H
Laboratory Control Sample	LC1	Beryllium	9.0 µg	8.94 µg	99.3	QC01051834	6/4/01	QU010601-H
Laboratory Control Duplicate	LC1a	Beryllium	9.0 µg	8.97 µg	99.7	QC01051834	6/4/01	QU010601-H

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**COPY**

Property



Waste



Sample

**RELEASE EVALUATION FORM**

Page 1 of 2

Release Evaluation No. 010530-00116-001 EXTENDED: NO EXPIRES: N/A Charge No.: N/A**PART I****SENDER/CUSTODIAN ACKNOWLEDGEMENT**

**Description of Property/Waste/Sample To Be Released/Transferred:** Five (Qty. 5) Beryllium characterization swipe samples obtained for Be analysis in T900D. Sample #'s are as follows: T900D-05302001-05-100, T900D-05302001-05-101, T900D-05302001-05-102, T900D-05302001-05-103, T900D-05302001-05-104.

**Current Location:** Building 116**Destination:** John Mansville Technical Center, PO Box 625005, Littleton, CO 80162-5005**New Recipient/Custodian:** Same as above

**History/Process Knowledge:** Swipe samples came from the interior surfaces of T900D. Process knowledge and site documents indicate this facility has never been posted as a CA/RBA. The facility has served as an administrative area.

- 1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate.
- 2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation.

Sender/Custodian: David Babbs *David Babbs* Emp. No: [REDACTED] Date: 5/31/01 Ext: 4717**PART II****RADIOLOGICAL ENGINEERING****SPECIFIC REQUIREMENTS AND/OR COMMENTS:**

*The samples specified above have been reviewed by Radiological Engineering and process knowledge indicates that there are no radiological concerns. As a result, **NO RADIOLOGICAL SURVEYS ARE REQUIRED** prior to transfer to the receiving laboratory.*

*Custodian: Ensure only indicated samples are delivered to the new custodian for beryllium analysis. Notify appropriate personnel for coordination of sample acceptance by the appropriate custodian.*

***This is an unrestricted release.***

Evaluated: Jay M. Britten / *Jay M. Britten* Emp. No: [REDACTED] Date: 5/31/01 Ext: 3050  
Radiological Engineer

**APPROVAL FOR TRANSFER/SHIPMENT**

Approved: Jay M. Britten / *Jay M. Britten* Emp. No: [REDACTED] Date: 5/31/01 Ext: 3050  
Radiological Engineer

**PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS**Release Evaluation #: 010530-00116-001**COPY**

Page 2 of 2

**Release Evaluation for Waste:**

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

**Release Evaluation for Property:**

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature. For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE. In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history.

**Release Evaluation for Samples:**

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

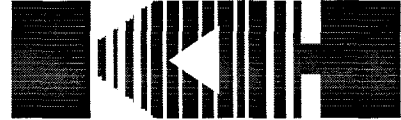
The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

*"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."*

**Additional Documentation:**

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page \_\_\_ of \_\_\_, initials of Radiological Engineer signing approval for transfer/shipment and date.



**Rocky Flats Environmental Technology Site**

**CHEMICAL CHARACTERIZATION PACKAGE**

*date 2/26/01*  
**400/500/900 BUILDING CLUSTER CLOSURE PROJECT**

**REVISION 1**

**FEBRUARY 20, 2001**

Prepared by: *[Signature]*  
Industrial Hygiene

Prepared by: *[Signature]*  
Environmental Compliance

Reviewed by: *[Signature]*  
Quality Assurance

Reviewed by: *[Signature]* 2/21/01  
RISS Facility Characterization Coordinator

Approved by: *[Signature]*  
Closure Project Facility Manager

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## CHEMICAL CHARACTERIZATION PACKAGE

**BUILDING(s): 400/500/900 CLUSTER – (T551A, 442W, 442L, ~~T900D~~)**

DAP 2/26/01

- \* This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.
- \* PDSP Data Quality Objectives were used to develop this characterization package.

**Instructions:**

1. Verify characterization activities are on the Plan-of-the-Day (POD).
2. Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual.
3. Verify personnel have appropriate training for the applicable tasks they will be performing.
4. Comply with RWP requirements, if applicable.
5. Comply with JHA and facility PPE requirements, as applicable.
6. Inform the Facility Manager, or designee prior to starting characterization activities.
7. Follow applicable characterization and sampling procedures.
8. Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs.
9. Coordination with the Environmental Restoration Program organization will be required to further characterize underneath facility foundations and slabs prior to removal.
10. Collect and maintain all characterization paperwork in the Project File(s), and all electronic data in the appropriate D&D RISS subdirectory.

ASBESTOS		
Sample Location	Estimated Number of Samples	Sample location and justification/rational
442 L&W	37	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure
<del>T900D</del>	<del>7</del>	<del>Asbestos inspection has not been performed. As a result a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure.</del>
T551A	20	Asbestos inspection has not been performed. As a result a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure.
<b>Total Samples:</b>	64	The exact sample numbers and locations will not be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.

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**BERYLLIUM**

Sample Location	Number of Samples (Smears)	Sample location and justification/rational
442 L&W	Room 101 – 15 random, 2 biased	Process history indicates B442W, Rooms 101 and 105 may have been used as a beryllium storage areas, no documented supporting data or process history proves otherwise. Therefore, random and biased sampling will be performed in Rooms 101 and 105. Room 101 and 105 are approximately 1900 sq. ft, and 5400 sq. ft respectively.
	Room 105 – 36 random, 4 biased	
	All other Facility areas 5 – biased	There is no documented supporting data or process history that proves beryllium was not used or stored in the remaining portions of B442 L&W. Therefore, two biased samples per building will be obtained in areas other than B442W, Rooms 101 and 105.
T551A	5 – biased	No historical association with Beryllium. Sample locations will be biased and will be determined at the time of sampling.
<del>T900D</del>	<del>5 – biased</del>	<del>No historical association with Beryllium. Sample locations will be biased and will be determined at the time of sampling.</del>
<b>Total Samples:</b>	72	Samples will be obtained at locations specified on sample map(s) in accordance with PRO-536-BCPR, Beryllium Characterization Procedure. Biased sample locations will correspond with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

**LEAD**

Sample Location	Number of Samples	Sample location and justification/rational
400, 500, <del>900</del> Cluster, all locations <i>2/26/01</i>	0	Lead sampling is not required in the 400, 500, 900 Cluster. All paint will remain a part of the infrastructure during demolition and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.
<b>Total Samples:</b>	0	

**RCRA/CERCLA CONSTITUENTS**

Sample Location	Number of Samples	Sample location and justification/rational
442L & 442W	0	A walk-down of the building, review of building historical documents and conversations with personnel assigned to the building, with historical knowledge of the processes in the building, indicate that no major spills of concern occurred within the building. Dioctyl phthalate was used in the building in vacuum pumps, and while some material was probably dripped on the floor during the course of operations, it was in small quantities that were immediately cleaned up. The only incident that appears to have occurred at the building involved a spill of oil in the soil outside the building. It was remediated at the time of the spill, and turned out to be regular oil, not dioctyl phthalate, as suspected, therefore no sampling is required.
T551A	0	Process knowledge and a walk-down of this building indicates that no RCRA/CERCLA constituents of concern or historical spills exist in the trailer, therefore no sampling is required.

Removed  
DHP  
2/26/01

<del>T900D</del>	0	<del>Process knowledge and a walk down of this building indicates that no RCRA/CERCLA constituents of concern or historical spills exist in the trailer, therefore no sampling is required.</del>
<b>Total Samples:</b>	0	

Removed  
DHP  
2/26/01

PCBs		
Sample Location	Number of Samples	Sample location and justification/rational
442L, steam pump	4 (3 + duplicate)	There is visible staining on the concrete pad surrounding the steam pump from oil used to lubricate the pump (approximately 25 sqft). This oil could have been contained PCBs at one time. Core sampling (2" diameter, 2" depth) in the number indicated should be conducted to determine the presence or absence of PCBs. (Deeper samples will be taken in the unlikely event that contamination appears to have migrated farther than 2" into the slab.) Disposal of the entire slab as PCB bulk remediation waste would likely be more expensive, and would require soil sampling to determine any migration under the slab.
T551A	0	Process knowledge and a walk-down of this building indicates no potential for PCB contamination, therefore no sampling is required.
<del>T900D</del>	0	<del>Process knowledge and a walk down of this building indicates no potential for PCB contamination, therefore no sampling is required.</del>
<b>Total Samples:</b>	4	

\* PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.



**Rocky Flats Environmental Technology Site**  
**CHEMICAL CHARACTERIZATION PACKAGE**

**400/500/900 BUILDING CLUSTER CLOSURE PROJECT**

**REVISION 0**

**FEBRUARY 1, 2001**

Prepared by: [Signature]  
Industrial Hygiene

Prepared by: [Signature]  
Environmental Compliance

Reviewed by: [Signature] 2/1/01  
Quality Assurance

Reviewed by: [Signature] 2/1/01  
RISS Facility Characterization Coordinator

Approved by: [Signature] FOR FRANK GIBBS FOR 400 AREA  
Closure Project Facility Manager

Revised to  
Rev 1  
2/1/01  
36

## CHEMICAL CHARACTERIZATION PACKAGE

**BUILDING(s): 400/500/900 CLUSTER – (T551A, 442W, 442L, T900D)**

**Note:** This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.

<b>ASBESTOS</b>		
<b>Sample Location</b>	<b>Estimated Number of Samples</b>	<b>Sample location and justification/rational</b>
442 L&W	37	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure
T900D	7	Asbestos inspection has not been performed. As a result a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure.
T551A	20	Asbestos inspection has not been performed. As a result a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure.
<b>Total Samples:</b>	64	The exact sample numbers and locations will not be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.

<b>BERYLLIUM</b>		
<b>Sample Location</b>	<b>Number of Samples (Smears)</b>	<b>Sample location and justification/rational</b>
442 L&W	Room 101 – 15 random, 2 biased	Process history indicates B442W, Rooms 101 and 105 may have been used as a beryllium storage areas, no documented supporting data or process history proves otherwise. Therefore, random and biased sampling will be performed in Rooms 101 and 105. Room 101 and 105 are approximately 1900 sq. ft, and 5400 sq. ft respectively.
	Room 105 – 36 random, 4 biased	
	All other Facility areas 5 – biased	
T551A	5 – biased	There is no documented supporting data or process history that proves beryllium was not used or stored in the remaining portions of B442 L&W. Therefore, two biased samples per building will be obtained in areas other than B442W, Rooms 101 and 105.
T900D	5 – biased	No historical association with Beryllium. Sample locations will be biased and will be determined at the time of sampling.
<b>Total Samples:</b>	72	No historical association with Beryllium. Sample locations will be biased and will be determined at the time of sampling.
		Samples will be obtained at locations specified on sample map(s) in accordance with PRO-536-BCPR, Beryllium Characterization Procedure. Biased sample locations will correspond with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

37  
 Revised to Rev 1  
 Date 2/6/01

<b>LEAD</b>		
<b>Sample Location</b>	<b>Number of Samples</b>	<b>Sample location and justification/rational</b>
400, 500, 900 Cluster, all locations	0	Lead sampling is not required in the 400, 500, 900 Cluster. All paint will remain a part of the infrastructure during demolition and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.
<b>Total Samples:</b>	0	

<b>RCRA/CERCLA CONSTITUENTS</b>		
<b>Sample Location</b>	<b>Number of Samples</b>	<b>Sample location and justification/rational</b>
442L & 442W	0	A walk-down of the building, review of building historical documents and conversations with personnel assigned to the building, with historical knowledge of the processes in the building, indicate that no major spills of concern occurred within the building. Dioctyl phthalate was used in the building in vacuum pumps, and while some material was probably dripped on the floor during the course of operations, it was in small quantities that were immediately cleaned up. The only incident that appears to have occurred at the building involved a spill of oil in the soil outside the building. It was remediated at the time of the spill, and turned out to be regular oil, not dioctyl phthalate, as suspected, therefore no sampling is required.
T551A	0	Process knowledge and a walk-down of this building indicates that no RCRA/CERCLA constituents of concern or historical spills exist in the trailer, therefore no sampling is required.
T900D	0	Process knowledge and a walk-down of this building indicates that no RCRA/CERCLA constituents of concern or historical spills exist in the trailer, therefore no sampling is required.
<b>Total Samples:</b>	0	

<b>PCBs</b>		
<b>Sample Location</b>	<b>Number of Samples</b>	<b>Sample location and justification/rational</b>
442L, steam pump	4 (3 + duplicate)	There is visible staining on the concrete pad surrounding the steam pump from oil used to lubricate the pump (approximately 25 sqft). This oil could have been contained PCBs at one time. Sampling as indicated should be conducted to determine the presence or absence of PCBs. Disposal of the entire slab as PCB bulk remediation waste would likely be more expensive, and would require soil sampling to determine any migration under the slab.
T551A	0	Process knowledge and a walk-down of this building indicates no potential for PCB contamination, therefore no sampling is required.
T900D	0	Process knowledge and a walk-down of this building indicates no potential for PCB contamination, therefore no sampling is required.
<b>Total Samples:</b>	4	

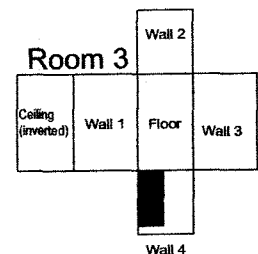
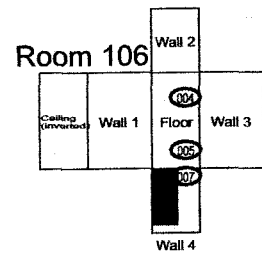
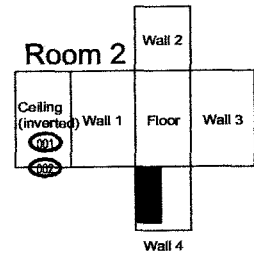
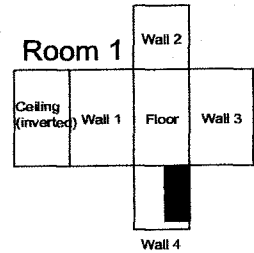
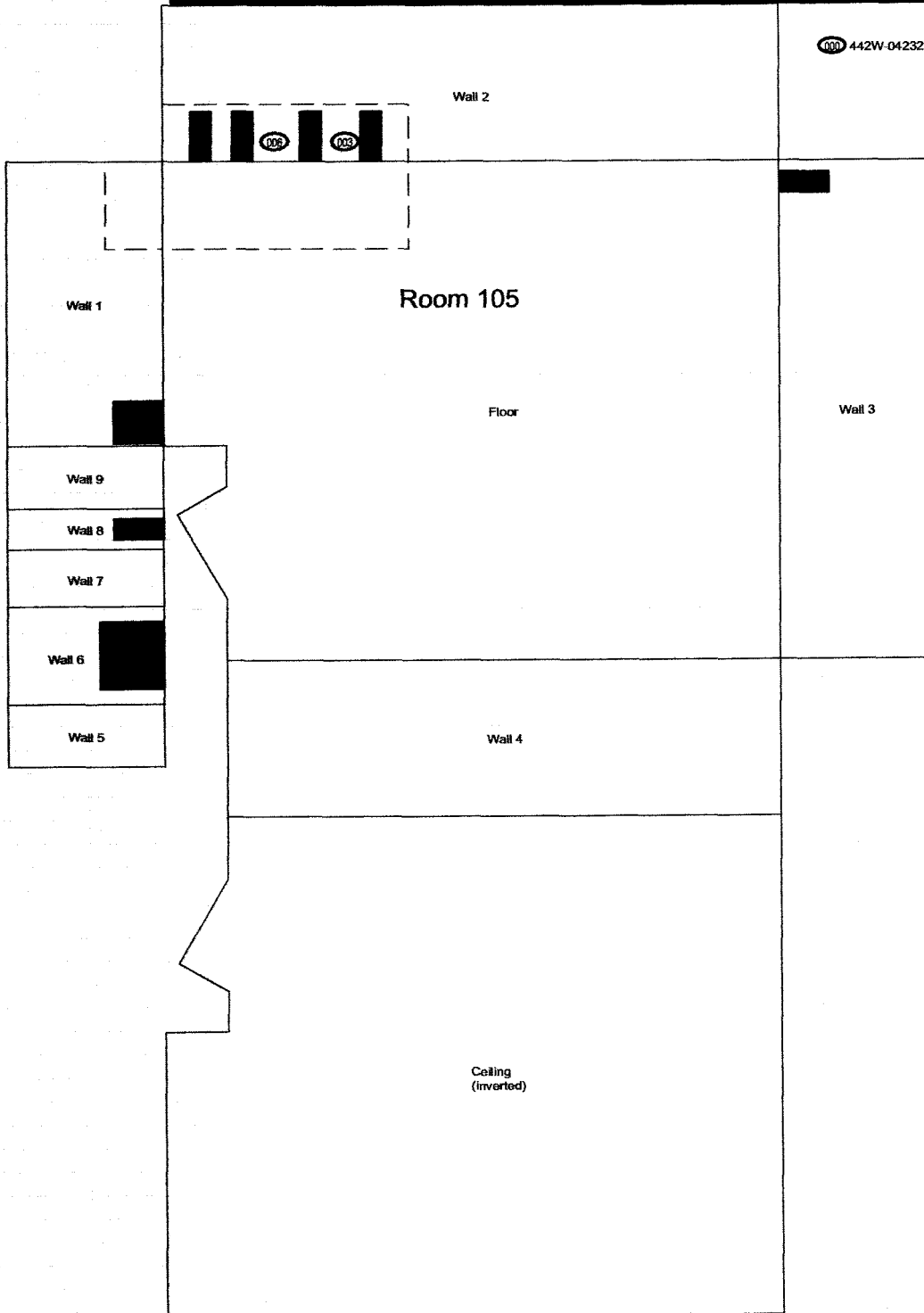
\* PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.

38  
Revised to Rev 1  
MMP  
2/21/01

# PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER

Survey Area: A      Survey Unit: 442-A-003      Classification: N/A  
 Building: 442W  
 Survey Unit Description: Interior of B442W

442W-04232001-05-001 Thru 007



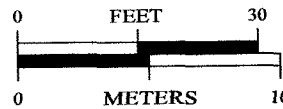
## SURVEY MAP LEGEND

- ⊗ Asbestos Sample Location
- ⊗ Beryllium Sample Location
- ⊗ Lead Sample Location
- ⊗ RCRA/CERCLA Sample Location
- ⊗ PCB Sample Location

Neither the United States Government nor Kaiser Hill Co., nor DynCorp (AST), nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.

■ Open/Inaccessible Area

□ Area in Another Survey Unit



1 inch = 24 feet 1 grid sq. = 1 sq. m.

U.S. Department of Energy  
 Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7770 Prepared for:

**DynCorp**  
 THE ART OF TECHNOLOGY

MAP ID: 192001/01-0203

March 8, 2001

442-A-003

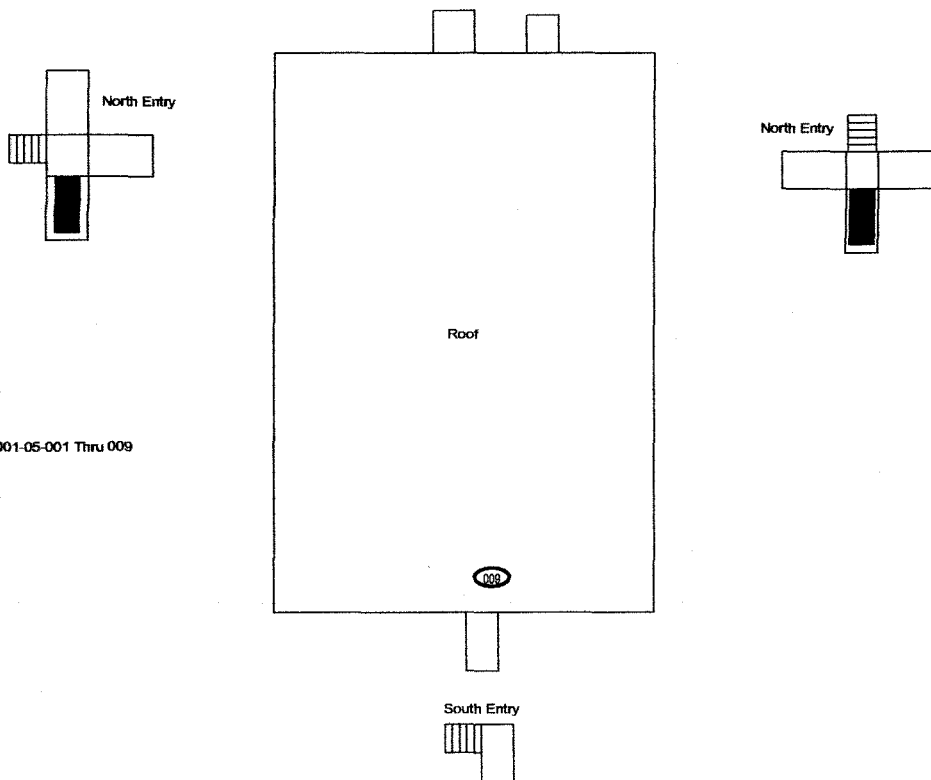
PAGE 1 OF 1

39

# **PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER**

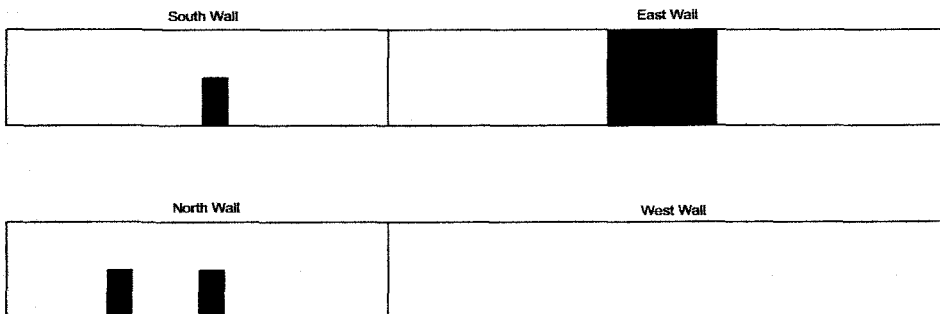
Survey Area: D      Survey Unit: 551-D-006      Classification: N/A  
 Building: Trailer 551A  
 Survey Unit Description: Exterior of T551A

## **Building T551A Exterior**



001 T551A-04182001-05-001 Thru 009

008



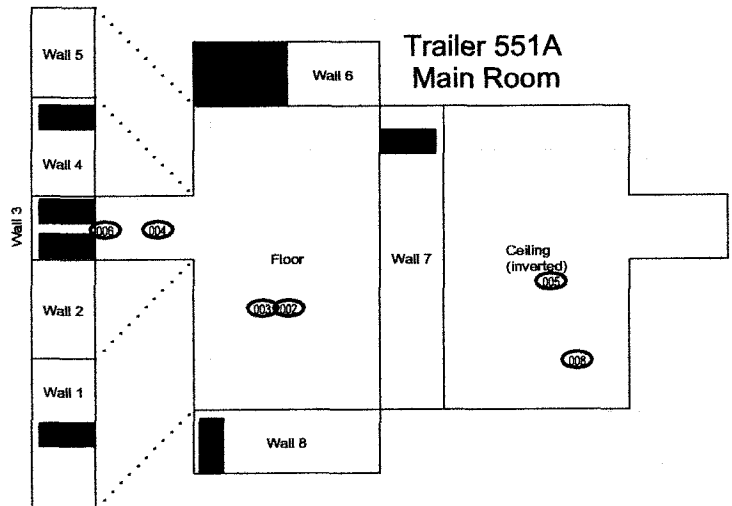
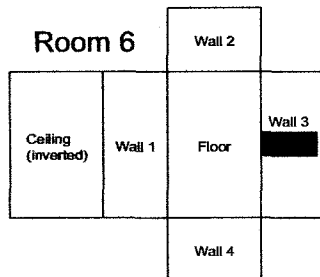
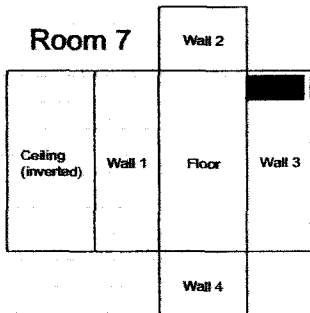
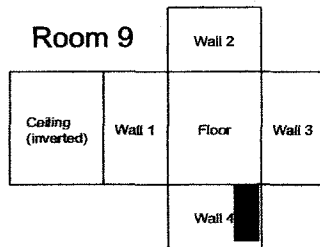
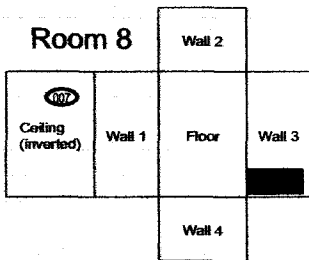
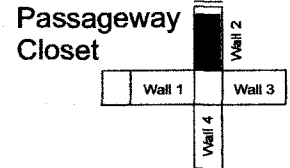
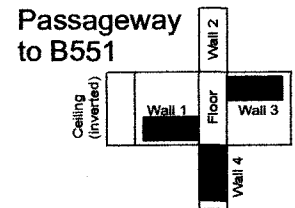
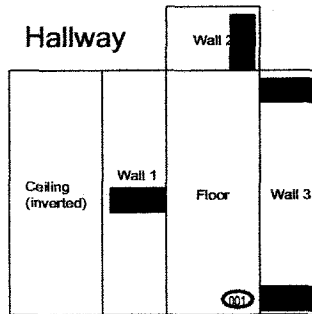
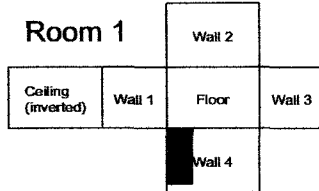
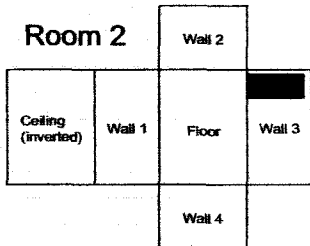
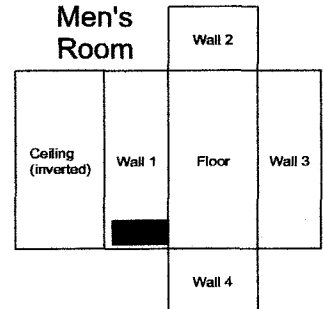
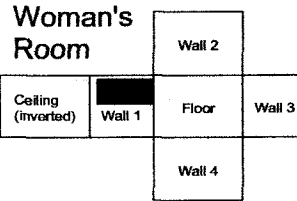
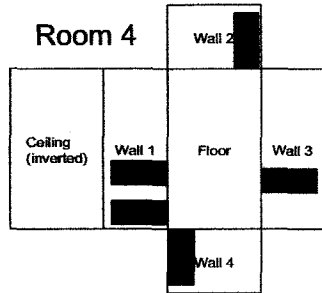
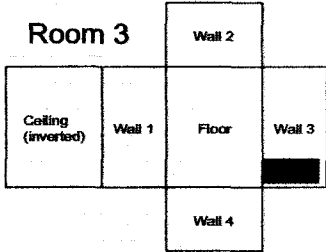
<p><b>SURVEY MAP LEGEND</b></p> <ul style="list-style-type: none"> <li>Asbestos Sample Location</li> <li>Beryllium Sample Location</li> <li>Lead Sample Location</li> <li>RCRA/CERCLA Sample Location</li> <li>PCBS Sample Location</li> </ul>	<p>Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&amp;ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or timeliness of any information, equipment, product, or process disclosed, or represents that its use would not infringe privately owned rights.</p> <p>Open/Inaccessible Area</p> <p>Area in Another Survey Unit</p>	<p>0 30</p> <p>FEET</p> <p>0 10</p> <p>METERS</p> <p>1 inch = 24 feet 1 grid sq. = 1 sq. m.</p>	<p>U.S. Department of Energy Rocky Flats Environmental Technology Site</p> <p>Prepared by: G&amp;S Dept. 303-966-770 Prepared for:</p> <p><b>DynCorp</b> THE ART OF TECHNOLOGY</p> <p>MAP ID: tv2001/01-0393 March 6, 2001</p>
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# PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER

Survey Area: C      Survey Unit: 551-C-005      Classification: N/A  
 Building: Trailer 551A  
 Survey Unit Description: Interior of T551A

T551A-04182001-05-001 Thru 009



<p><b>SURVEY MAP LEGEND</b></p> <ul style="list-style-type: none"> <li>Asbestos Sample Location</li> <li>Beryllium Sample Location</li> <li>Lead Sample Location</li> <li>RCRA/CERCLA Sample Location</li> <li>PCBS Sample Location</li> </ul>	<p>Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&amp;ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.</p> <p>Open/Inaccessible Area</p> <p>Area in Another Survey Unit</p>	<p>0 30 FEET</p> <p>0 10 METERS</p> <p>1 inch = 24 feet 1 grid sq. = 1 sq. m.</p>	<p>U.S. Department of Energy Rocky Flats Environmental Technology Site</p> <p>Prepared by: G4S Dept. 303-966-770 Prepared for:</p> <p><b>DynCorp</b> THE ART OF TECHNOLOGY</p> <p>MAP ID: 1/2001/01-0303 March 6, 2001</p>
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## RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accredited Laboratory # 101896  
TDH Licensed Laboratory # 30-0136

TABLE I PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:

RES 76899-1R

Client:

Kaiser-Hill Analytical Services Division

Client Project Number / P.O.:

01D0712/ EEDA1712

Client Project Description:

On-site Sample Analysis, A. Gonzalez

Date Samples Received:

May 1, 2001

Analysis Type:

PLM Short Report, Bulk

Turnaround:

24 Hour

Analyst: YDL

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Mineral		Volatile (%)	Asbestos Fibers Components (%)	Non-Fibrous Components (%)
TS51A-04182001-05-001	EM 539877	A	Tan mastic	1			ND	0	100
		B	White/tan tile	99			ND	0	100
TS51A-04182001-05-002	EM 539878	A	Tan mastic	5			ND	0	100
		B	White/tan tile	95			ND	0	100
TS51A-04182001-05-003	EM 539879	A	Tan mastic	10			ND	0	100
		B	White tile	90			ND	0	100
TS51A-04182001-05-004	EM 539880	A	White tile	100			ND	0	100
TS51A-04182001-05-005	EM 539881	A	White/tan drywall	100			ND	20	80
TS51A-04182001-05-006	EM 539882	A	White/tan drywall w/white granular paint	100			ND	10	90
TS51A-04182001-05-007	EM 539883	A	White/tan drywall w/white granular paint	100			ND	10	90
TS51A-04182001-05-008	EM 539884	A	Pink fibrous material	100			ND	93	7
TS51A-04182001-05-009	EM 539885	A	Black tar	100			ND	15	85

ND = None Detected

TR = Trace, &lt; 1% Visual Estimate

Treat-Aid = Treat-Aid-Acrylics

YDL

**Rocky Flats Environmental Technology Site**

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

01D 0712

REF F 3781.32 (7/95)  
Formally RF-47530

Name of Originator: <u>A. Gonzalez</u>		Title: <u>THH</u>		Bldg/Ext: <u>116/16727</u>		Date: <u>4/24/01</u>		Page <u>1 of 1</u>	
SAMPLE NUMBER Bldg/Vol/ID/P/S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number	
TSS1A-04182001-05-001	<u>A. Gonzalez</u>								
TSS1A-04182001-05-002									
TSS1A-04182001-05-003									
TSS1A-04182001-05-004									
TSS1A-04182001-05-005									
TSS1A-04182001-05-006									
TSS1A-04182001-05-007									
TSS1A-04182001-05-008									
TSS1A-04182001-05-009									
<u>Handwritten Signature</u> <u>4/24/01</u>									
Relinquished by <u>Handwritten Signature</u>		Time/Date <u>13:50 4-30-01</u>		Relinquished by		Received by		Time/Date	
Relinquished by		Time/Date		Relinquished by		Received by		Time/Date	
Relinquished by		Time/Date		Relinquished by		Received by		Time/Date	
Relinquished by		Time/Date		Relinquished by		Received by		Time/Date	
Report and Billing Instruction				Analysis Request					
Kaiser-Hill <input checked="" type="checkbox"/> Verbal To: <u>A. Gonzalez</u> RMRS <input type="checkbox"/> Fax To: <u>WJ</u> SSOC <input type="checkbox"/> Report To: <u>WJ</u> DynCorp <input type="checkbox"/> Bill To: <u>KH</u> WSI <input type="checkbox"/> P.O.#/Release: <u>EPDA1712</u> Lab: <u>Handwritten</u>				Seal# (Release #) Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken Signature: Comments:					

White - Return to Originator Yellow - Lab Copy Green - Sample Custodian Blue - Originator

13

**nucky Flats Environmental Technology Site**

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

Name of Originator: A. Gaudin Title: IHA Bldg/Ext: 116/10000 Date: 4/24/01 Page 1 of 1

SAMPLE NUMBER Bldg/Y/M/D/P#/S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number
TSSIA-04182001-05-001	Asbestos						IHA03005	11
TSSIA-04182001-05-002								12
TSSIA-04182001-05-003								
TSSIA-04182001-05-004								
TSSIA-04182001-05-005								
TSSIA-04182001-05-006								
TSSIA-04182001-05-007								
TSSIA-04182001-05-008								
TSSIA-04182001-05-009								
<u>Asbestos Sampled 4/24/01</u>								

pt. count all samples true to 3%

Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
<u>Chuck Gaudin</u>	<u>Chuck Gaudin</u>	<u>13:50 4-24-01</u>			
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date

Report and Billing Instruction		Analysis Request		Seal# (Release #)
Kaiser-Hill <input checked="" type="checkbox"/>	Verbal To: <u>A. Gaudin</u>	Industrial Hygiene Sample <input type="checkbox"/>	Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken	
RMRS <input type="checkbox"/>	Fax To: <u>6677</u>	<input type="checkbox"/> Rush <input type="checkbox"/> Other	Signature: _____	
SSOC <input type="checkbox"/>	Report To: <u>6677</u>	Asbestos Samples <input type="checkbox"/>	Comments: _____	
DynCorp <input type="checkbox"/>	Bill To: <u>6677</u>	<input type="checkbox"/> 24 Rush <input type="checkbox"/> 2 Rush		
WSI <input type="checkbox"/>	P.O.#/Release: <u>EFU11111</u>			
Lab: <u>44</u>				

## RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accredited Laboratory # 101896

TDHLicensed Laboratory # 30-0136

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:

RES 76899-1

Client:

Kaiser-Hill Analytical Services Division

Client Project Number / P.O.:

01D0712/ EFDA1712

Client Project Description:

On-Site Sample Analysis, A. Gonzalez

Date Samples Received:

May 1, 2001

Analysis Type:

PLM Short Report, Bulk

Turnaround:

24 Hour

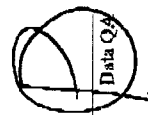
Analyst: PDL

Client Sample Number	Lab ID Number	L					Physical Description	Sub Part (%)	Asbestos Content		Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
		A	Y	E	R				Mineral	Visual Estimate (%)		
T7551A-04182001-05-001	EM 539877	A					Tan mastic	1		ND	0	100
		B					White/tan tile	99		ND	0	100
T7551A-04182001-05-002	EM 539878	A					Tan mastic	5		ND	0	100
		B					White/tan tile	95		ND	0	100
T7551A-04182001-05-003	EM 539879	A					Tan mastic	10		ND	0	100
		B					White tile	90		ND	0	100
T7551A-04182001-05-004	EM 539880	A					White tile	100		ND	0	100
T7551A-04182001-05-005	EM 539881	A					White/tan drywall	100		ND	20	80
T7551A-04182001-05-006	EM 539882	A					White/tan drywall w/white granular paint	100		ND	10	90
T7551A-04182001-05-007	EM 539883	A					White/tan drywall w/white granular paint	100		ND	10	90
T7551A-04182001-05-008	EM 539884	A					Pink fibrous material	100		ND	93	7
T7551A-04182001-05-009	EM 539885	A					Black tar	100		ND	15	85

ND = None Detected

TR = Trace, &lt; 1% Visual Estimate

Trem-Act = Tremolite-Actinolite



415

# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

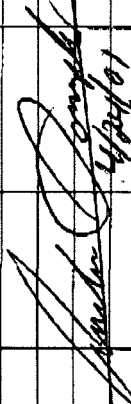
Safety and Hygiene Chain of Custody Record and Analysis Request

01D 0712

05/02/01 WED 14:20 FAX 303 863 9196

RES. ENV. SERV.

010

Name of Originator: <u>A. Gonzalez</u>		Title: <u>EHHS</u>		Bldg/Ext: <u>116/16727</u>		Date: <u>4/24/01</u>		Page <u>1 of 1</u>	
SAMPLE NUMBER Bldg/Y/M/D/P#/#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number	
TSS1A-04182001-05-001	Asbestos						EH0278005		
TSS1A-04182001-05-002									
TSS1A-04182001-05-003									
TSS1A-04182001-05-004									
TSS1A-04182001-05-005									
TSS1A-04182001-05-006									
TSS1A-04182001-05-007									
TSS1A-04182001-05-008									
TSS1A-04182001-05-009									
 <u>4/24/01</u>									
Relinquished by <u>[Signature]</u>	Received by <u>Chuck [Signature]</u>	Time/Date <u>13:50 4-30-01</u>	Relinquished by	Received by	Time/Date				
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date				
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date				
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date				
<b>Report and Billing Instruction</b> Kaiser-Hill <input checked="" type="checkbox"/> Verbal To: <u>A. Gonzalez</u> RMRS <input type="checkbox"/> Fax To: <u>6679</u> SSOC <input type="checkbox"/> Report To: <u>KH</u> DynCorp <input type="checkbox"/> Bill To: <u>KH</u> WSI <input type="checkbox"/> P.O.#/Release: <u>EFDA1712</u> Lab: <u>Relinquish</u>						<b>Analysis Request</b> Industrial Hygiene Sample <input type="checkbox"/> Standard Service <input type="checkbox"/> Rush <input type="checkbox"/> Other <input type="checkbox"/> Asbestos Samples <input type="checkbox"/> Standard Service <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Other <input type="checkbox"/>			
<b>Seal# (Release #)</b> Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken Signature: _____ Comments: _____									

White - Return to Originator    Yellow - Lab Copy    Green - Sample Custodian    Blue - Originator

**FOOTHILLS ENVIRONMENTAL, INC.**  
Industrial Hygiene, Safety, & Environmental Services

2801 Youngfield St., Ste. 300  
Golden, CO 80401  
Phone: (303) 275-3470  
Fax: (720) 489-2832

**ASBESTOS BULK SAMPLING FORM**

CLIENT NAME: \_\_\_\_\_ LOCATION: \_\_\_\_\_

SAMPLE DATE: \_\_\_\_\_ SAMPLED BY: \_\_\_\_\_ PROJECT NUMBER: \_\_\_\_\_

Sample Number	Sample Type	Sample Description	Sample Location
TSS1A-04182001-05-001	floor tile	12" x 12" yellow/brown with yellow matrix	Entrance to Mech Room
TSS1A-04182001-05-002	floor tile	" " " " " "	Center of Main Room
TSS1A-04182001-05-003	floor tile	12" x 12" white with blue streak & yellow matrix	Center of Main Room
TSS1A-04182001-05-004	floor tile	" " " " " "	Hallway to rooms 708
TSS1A-04182001-05-005	drywall	ceiling drywall with vinyl covering - no tape joint compound	Center of Main Room
TSS1A-04182001-05-006	drywall	ceiling drywall with vinyl covering - no tape joint	Hallway to Room 708
TSS1A-04182001-05-007	drywall	ceiling drywall with vinyl covering - no tape joint	Room 8
TSS1A-04182001-05-008	misc	pink interior duct insulation	Main Room
TSS1A-04182001-05-009	misc	roof tar-black	Roof

Metal roof with black tar patches

Interior walls - wood panels over wood frame - hollow

Exterior walls - wood panels on drywall - no tape. Fiberglass insulation inside walls

No Floor tile beneath carpet.

All test locations marked

# PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER

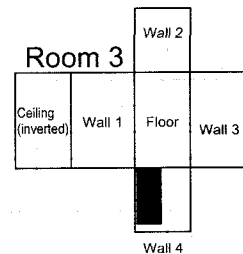
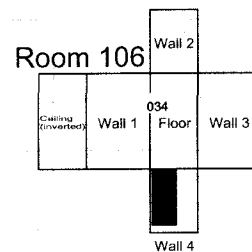
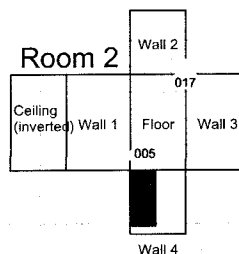
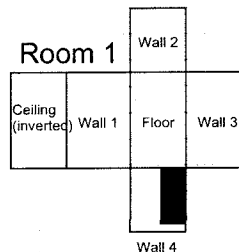
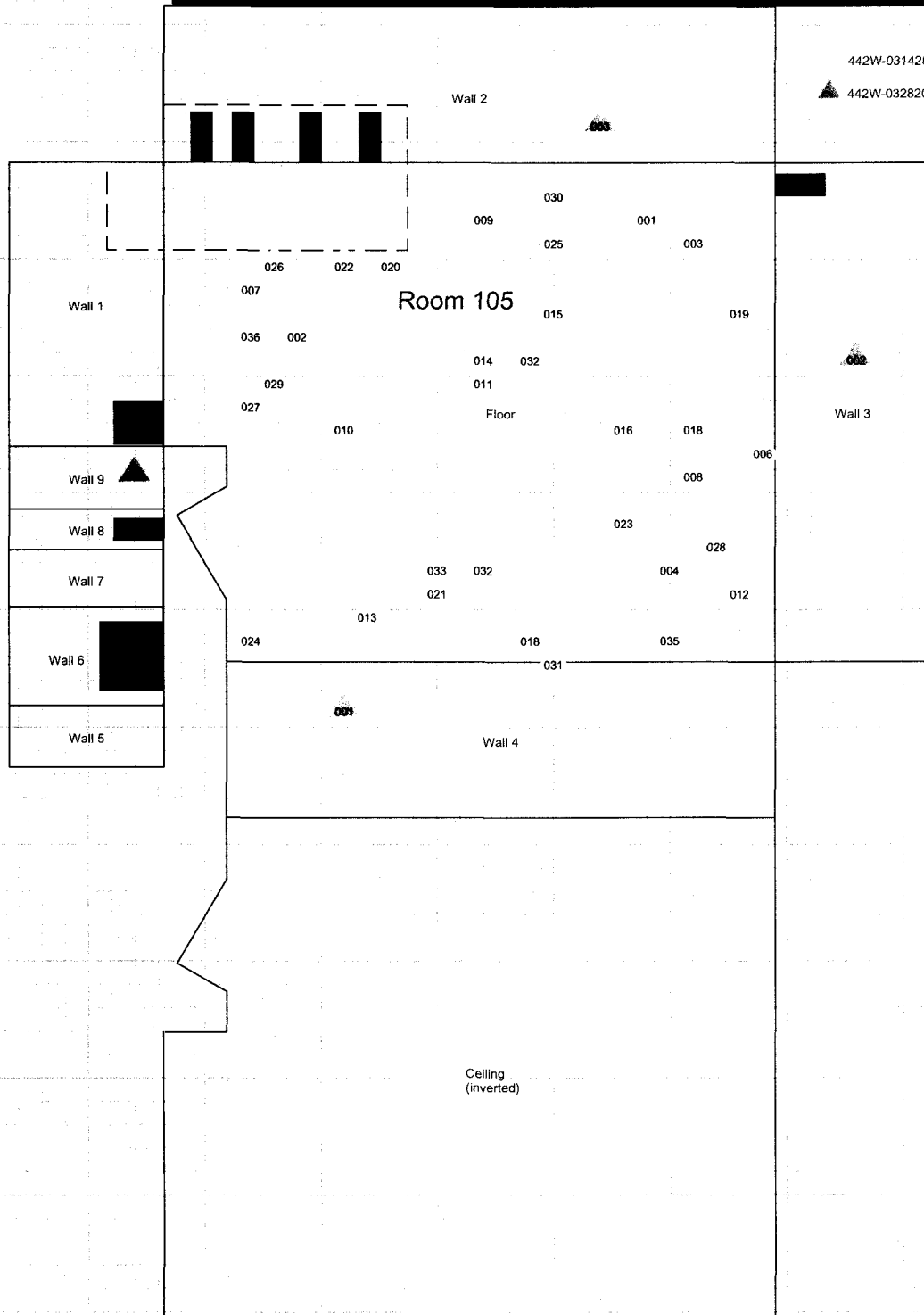
Survey Area: A  
Building: 442W  
Survey Unit Description: Interior of B442W

Survey Unit: N/A

Classification: N/A

442W-03142001-05-001 thru 036

442W-03282001-05-001 thru 004

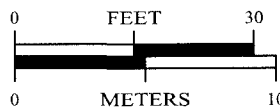


## SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCB Sample Location

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- Open/Inaccessible Area
- Area in Another Survey Unit



1 inch = 24 feet 1 grid sq. = 1 sq. m.

U.S. Department of Energy  
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707 Prepared for:

**DynCorp**  
THE ART OF TECHNOLOGY



MAP ID: FV2001/01-0303

March 8, 2001

442-A-003

PAGE 1 OF 1

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# PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER

Survey Area: C

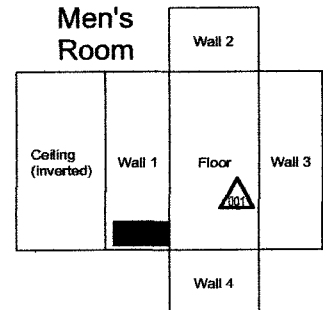
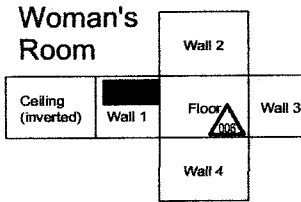
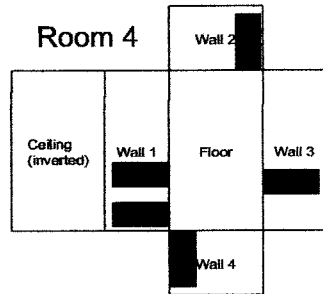
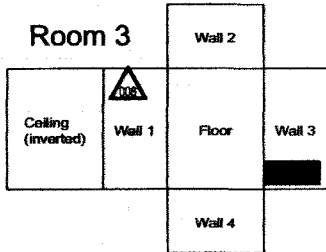
Survey Unit: 551-C-005

Classification: N/A

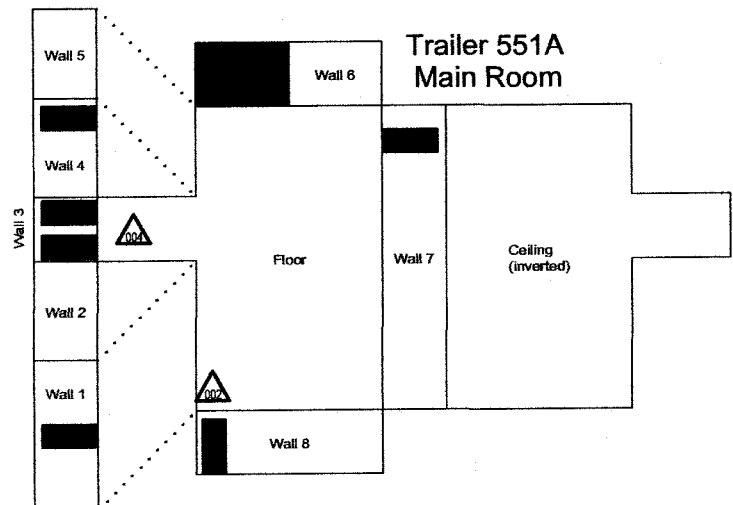
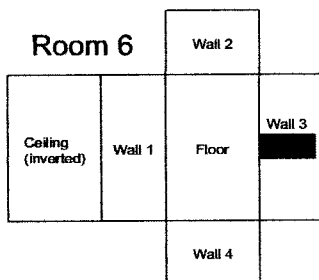
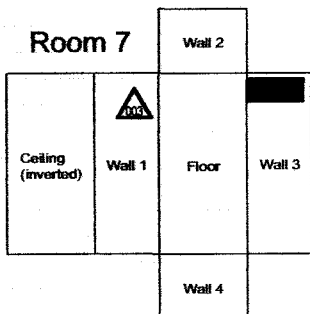
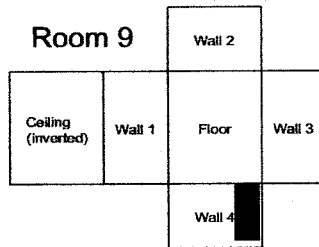
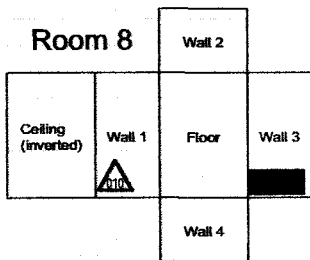
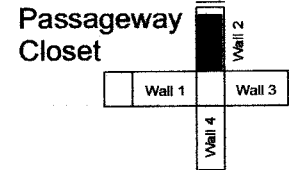
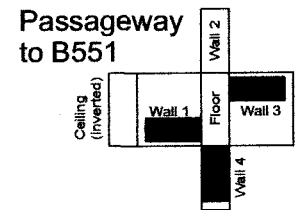
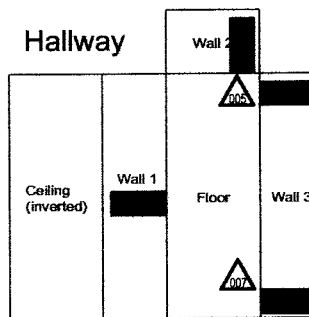
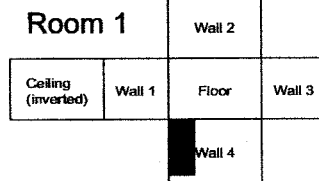
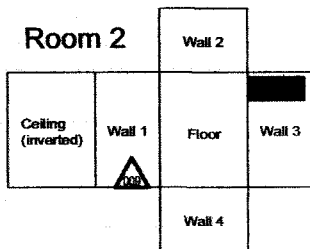
Building: Trailer 551A

Survey Unit Description: Interior of T551A

T551A-04182001-05-001 Thru 010



T551A-04182001-05-001 Thru 010

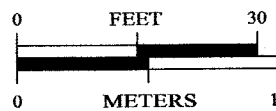


## SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCBS Sample Location

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- Open/Inaccessible Area
- Area in Another Survey Unit



1 inch = 24 feet 1 grid sq. = 1 sq. m.

U.S. Department of Energy  
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-968-7767 Prepared for:

**DynCorp**  
THE ART OF TECHNOLOGY

MAP ID: 152001/01-0303

March 8, 2001

49



Johns Manville Corporation  
10100 West Ute Avenue (80127)  
P.O. Box 625005  
Littleton, CO 80162-5005  
Tel: (303) 978-3724

## COVER PAGE

May 17, 2001

Shelly Johnsen  
Rocky Flats Environmental Technology Site  
P.O. Box 464, Bldg. 881  
Golden, CO 80402-0464

**Laboratory Report ID** 01051503  
**Laboratory Name:** Johns Manville IH Lab  
**Subcontract Number:** KH800188  
**RIN:** 01D0711  
**Requestor:** Andre Gonzalez  
**P.O./Charge Code:** EFD41712

Dear Ms. Johnsen:

The Johns Manville Industrial Hygiene Laboratory has performed the following analytical testing services as requested. The results were calculated based upon the information supplied on the submission form. All laboratory data have been filed and are available upon request. The Johns Manville Laboratory is accredited by the American Industrial Hygiene association (AIHA) in the industrial hygiene program (Certificate #056), and participates in the AIHA ELPAT program.  
If you have any questions, please call (303) 978-2584.

I certify that this electronic image, and all hardcopies produced from this image, accurately represents the data and is in compliance with the RFETS specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Sincerely,

**Marilyn Andrews**  
Manager of Analytical Services  
May 17, 2001

May 17, 2001

**Laboratory Report ID:** 01051503  
**Laboratory Name:** Johns Manville IH Lab  
**Subcontract Number:** KH800188  
**RIN:** 01D0711  
**Requestor:** Andre Gonzalez  
**P.O./Charge Code:** EFD41712

**Scope of Work:**

Bottle Number(s)	Customer Number(s)	Laboratory ID Number(s)	Line Item Code	Sample Matrix	Instrument Run
01D0711-001.001	T551A04182001-05-001	01051503-001	NR01A001	WIPE	QU010516-B
01D0711-002.001	T551A04182001-05-002	01051503-002	NR01A001	WIPE	QU010516-B
01D0711-003.001	T551A04182001-05-003	01051503-003	NR01A001	WIPE	QU010516-B
01D0711-004.001	T551A04182001-05-004	01051503-004	NR01A001	WIPE	QU010516-B
01D0711-005.001	T551A04182001-05-005	01051503-005	NR01A001	WIPE	QU010516-B
01D0711-006.001	T551A04182001-05-006	01051503-006	NR01A001	WIPE	QU010516-B
01D0711-007.001	T551A04182001-05-007	01051503-007	NR01A001	WIPE	QU010516-B
01D0711-008.001	T551A04182001-05-008	01051503-008	NR01A001	WIPE	QU010516-B
01D0711-009.001	T551A04182001-05-009	01051503-009	NR01A001	WIPE	QU010516-B
01D0711-010.001	T551A04182001-05-010	01051503-010	NR01A001	WIPE	QU010516-B

Commodore Advanced Sciences		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # 01D0711#001		
RFETS		01061503				Page 1 of 2		
Sampler(s) ANDRE GONZALEZ		Contact/Requester JOHNSEN, SHELLY		Telephone No. 6401				
RIN 01D0711		Sampling Origin T551A		Purchase Order/Charge Code EED41712				
Project Title T551A BE SMEARS		Logbook No. N/A		Ice Chest No. N/A		Temp.		
To (Lab) Johns Manville		Method of Shipment FEDERAL EXPRESS		Bill of Lading/Air Bill No. 4533-2127- 3859				
Protocol		Related COC (if any)		PRE				
POSSIBLE SAMPLE HAZARDS/REMARKS		SCREENING REQUIRED		SPECIAL INSTRUCTIONS				
Are acid preserved samples DOT hazardous per 40 CFR Part 136.3 Table II? YES or NO		<input type="checkbox"/>		Hold Time				
Are other known hazardous substances present? YES or NO								
** ** *								
Bottle No.	Customer Number	Matrix	Date	Time	Location	Container (size/type/quantity)	Sample Analysis	Preservative ; Packing
01D0711-001.001	T551A04182001-05-001	FILTER	04/18/2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None
01D0711-002.001	T551A04182001-05-002	FILTER	04/18/2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None
01D0711-003.001	T551A04182001-05-003	FILTER	04/18/2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None
01D0711-004.001	T551A04182001-05-004	FILTER	04/18/2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None
01D0711-005.001	T551A04182001-05-005	FILTER	04/18/2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None
01D0711-006.001	T551A04182001-05-006	FILTER	04/18/2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None
01D0711-007.001	T551A04182001-05-007	FILTER	04/18/2001	7:00 AM	T551 A	1-FILTER / N/A /1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None
Relinquished By: J. Miller	Date/Time: 5-14-01/1500	Received By: Fed Ex	Date/Time:	Relinquished By: Ind-ex	Date/Time:	Received By: Wlatu	Date/Time: 5/15/01 10:30	
Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:	
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., returned to customer, disposed of per lab procedure, used in analytical process)				Date/Time		

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

**C.O.C. #**

01D0711#001

Page 2 of 2

[illegible]

## NARRATIVE

The laboratory did not encounter any problems or questions associated with the receipt of samples into the laboratory. All samples identified on the Chain-of-Custody (COC) form were received and accepted in good condition with tamper-resistant seals intact. (1.d, 4.b, 4.e)

Whatman 4 or Whatman 41 swipe samples were submitted in this project and analyzed for the identification and quantitation of beryllium in accordance with Line Item Code (LIC), NR01A001. The methodology does not define any required specific holding times for the compound on the sampling media. Results of the sample analyses were generated and reported by the specified turn-around time (TAT). (4.f, 5.6, 5.f, 6.b.7)

The laboratory preparation of samples in this project was performed following laboratory Standard Operating Procedure (SOP), IH M-1.02, Revision N. Additional references to the preparation technique of this sample type are addressed in EPA Method, 3015A and CEM Application Procedure, MS-9. The samples were prepared using the CEM Microwave Sample Preparation System, Model MDS 2000. The instrumental sample analysis for these samples follows SOP, IH M-1.04, Revision N, which covers the analytical procedure outlined in OSHA method, ID-125G. Start-up and calibration of the Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) instrument are performed following manufacturer's instructions and are addressed in SOP, IH M-1.03, Revision N. (5.a)

Results of all calibration verifications (initial and continuing), method blanks (calibration and matrix), Laboratory Control Samples (LCSs), Laboratory Control Sample Duplicates (LCDs) and internal QA/QC program monitoring standards for this analytical batch are within acceptable limits as specified in Statement of Work (SOW) modules, GR01-B.3 and NR01-A. (5.c, 5.d.2, 5.d.3, 6.b.2-6)

The internal quality control procedures for statistical monitoring of analytical data to ensure the production of quality results with continuing high validity are addressed in the JMTC IH Laboratory Quality Assurance Manual, Section 10.0. Results of all method-specific QC assessments for this analytical batch are within acceptable limits in accordance with SOW modules, GR01-B.3 and NR01-A. (5.c, 6.b.1)

The Instrument Detection Limit (IDL) has been determined to be 0.00028 mg/ml using the ICP-AES instrument, Perkin Elmer - Optima model 3000DV. Method Detection Limit (MDL) determinations are performed in accordance with the EPA Method contained in 40 CFR Part 136, Appendix B. The MDL for beryllium on the Whatman swipe matrix by ICP-AES has been determined to be 0.012 mg/swipe. These values meet the required detection limits for SOW module, NR01-A. (5.d.1) The sample batch did not require any sample re-analyses due to dilutions or any anomalies. (5.d) The qualifiers used for the results page are "U" for non-detect and "J" for levels greater than the MDL, but less than the Reporting Limit.

The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate N. 056) and continues to rate proficient within the Proficiency Analytical Testing (PAT) program. This program is designed for laboratories involved in analyzing samples taken in the workplace environment. The JMTC IH Analytical Laboratory is also accredited in the Environmental Lead Laboratory Accreditation Program (ELLAP), which is recognized by the EPA National Lead Laboratory Accreditation Program (NLLAP). This program accredits and monitors performance of laboratories testing for lead in environmental samples such as paint, soil, dust wipes and air. (5.a)

May 17, 2001

Laboratory Report ID 01051503  
Laboratory Name: Johns Manville IH Lab  
Subcontract Number: KH800188  
RIN: 01D0711  
Requestor: Andre Gonzalez  
P.O./Charge Code: EFD41712

## QUICK RESULTS SUMMARY

Customer Number	Laboratory ID Number	Requested Analysis	Reporting Limit	Back Section	CONCENTRATION Front Section	Total	Q	Air Vol or Time	Air Concentration
T551A04182001-05-001	01051503-001	Beryllium	0.1 µg			<0.1 µg	U		
T551A04182001-05-002	01051503-002	Beryllium	0.1 µg			<0.1 µg	U		
T551A04182001-05-003	01051503-003	Beryllium	0.1 µg			<0.1 µg	U		
T551A04182001-05-004	01051503-004	Beryllium	0.1 µg			<0.1 µg	U		
T551A04182001-05-005	01051503-005	Beryllium	0.1 µg			<0.1 µg	U		
T551A04182001-05-006	01051503-006	Beryllium	0.1 µg			<0.1 µg	U		
T551A04182001-05-007	01051503-007	Beryllium	0.1 µg			<0.1 µg	U		
T551A04182001-05-008	01051503-008	Beryllium	0.1 µg			<0.1 µg	U		
T551A04182001-05-009	01051503-009	Beryllium	0.1 µg			<0.1 µg	U		
T551A04182001-05-010	01051503-010	Beryllium	0.1 µg			<0.1 µg	U		

May 17, 2001

Laboratory Report ID 01051503  
Laboratory Name: Johns Manville IH Lab  
Subcontract Number: KH800188  
RIN: 01D0711  
Requestor: Andre Gonzalez  
P.O./Charge Code: EFD41712

## QC RESULTS SUMMARY

QC Parameter	QC Item Type	Compound	Expected Recovery	Actual Recovery	Percent Recovery	QC Sample ID	Date Analyzed	Instrument Run
Preparation Blank	PB1	Beryllium	< 0.1 µg	<0.1 µg	N/A		5/16/01	QU010516-B
Matrix Blank	MB1	Beryllium	< 0.1 µg	<0.1 µg	N/A		5/16/01	QU010516-B
Matrix Blank Spike	MS1	Beryllium	5.0 µg	5.17 µg	103.4		5/16/01	QU010516-B
Laboratory Control Sample	LC1	Beryllium	10.0 µg	9.90 µg	99	QC01050310	5/16/01	QU010516-B
Laboratory Control Duplicate	LC1a	Beryllium	10.0 µg	10.0 µg	100	QC01050310	5/16/01	QU010516-B



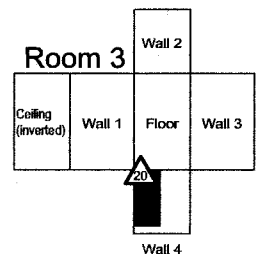
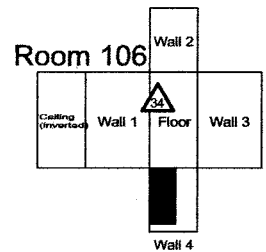
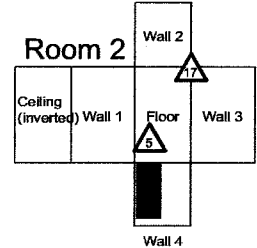
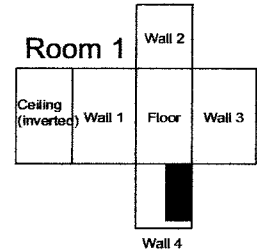
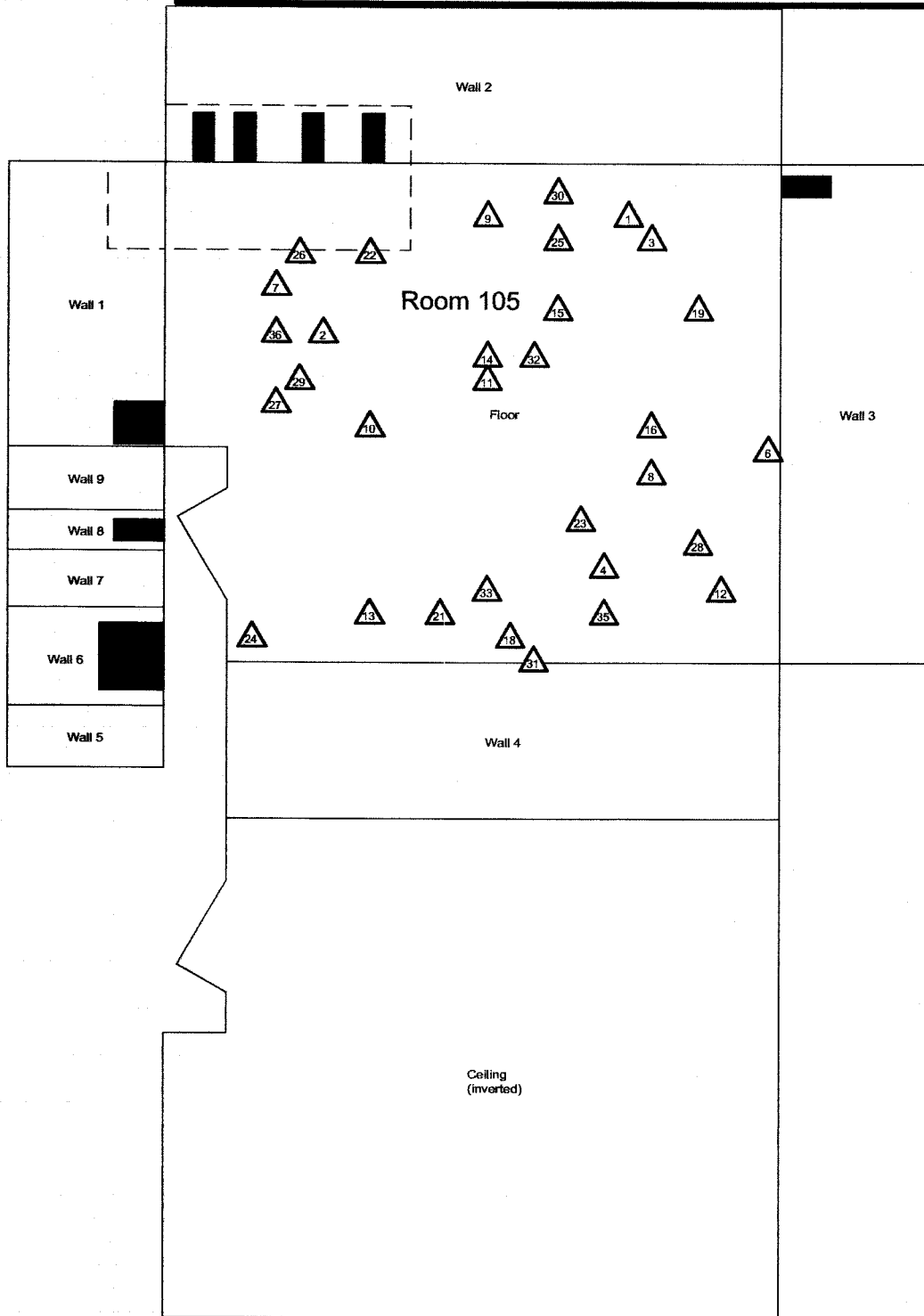
Safety and Hygiene Chain of Custody Record and Analysis Request

010074

Name of Originator: <u>A. G. 001-001</u>		Title: <u>THA 1</u>		Bldg/Ext: <u>116/16227</u>		Date: <u>4/16/01</u>		Page <u>1</u> of <u>1</u>																																										
SAMPLE NUMBER Bldg/Y/M/D/P#/#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number																																										
TSS1A-04182001-05-001	<u>Beryllium</u>	<u>1</u>	<u>1</u>				<u>UAA001</u>	<u>1</u>																																										
TSS1A-04182001-05-002																																																		
TSS1A-04182001-05-003																																																		
TSS1A-04182001-05-004																																																		
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TSS1A-04182001-05-006																																																		
TSS1A-04182001-05-007																																																		
TSS1A-04182001-05-008																																																		
TSS1A-04182001-05-009	<u>1</u>	<u>1</u>	<u>1</u>				<u>No hazardous substances</u>	<u>001 05-10-01</u>																																										
TSS1A-04182001-05-010																																																		
TSS1A-04182001-05-011																																																		
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<table border="1"> <thead> <tr> <th colspan="2">Report and Billing Instruction</th> <th colspan="2">Analysis Request</th> <th colspan="2">Seal# (Release #)</th> </tr> </thead> <tbody> <tr> <td>Kaiser-Hill <input checked="" type="checkbox"/></td> <td>Verbal To: <u>A. G. 001-001</u></td> <td colspan="2">Industrial Hygiene Sample</td> <td colspan="2">Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken</td> </tr> <tr> <td>RMRS <input type="checkbox"/></td> <td>Fax To: <u>6628</u></td> <td colspan="2">Rush <input type="checkbox"/> Other <input type="checkbox"/></td> <td colspan="2">Signature: <u>[Signature]</u></td> </tr> <tr> <td>SSOC <input type="checkbox"/></td> <td>Report To: <u>A. G. 001-001</u></td> <td colspan="2">Asbestos Samples</td> <td colspan="2">Comments: <u>verified by [Signature]</u></td> </tr> <tr> <td>DynCorp <input type="checkbox"/></td> <td>Bill To: <u>RH</u></td> <td colspan="2">Rush <input type="checkbox"/> 24 Rush <input type="checkbox"/></td> <td colspan="2"></td> </tr> <tr> <td>WSI <input type="checkbox"/></td> <td>P.O.#/Release: <u>FED4444</u></td> <td colspan="2">Standard Service <input type="checkbox"/></td> <td colspan="2"></td> </tr> <tr> <td>57</td> <td>Lab: <u>JM</u></td> <td colspan="2">Standard Service <input type="checkbox"/></td> <td colspan="2"></td> </tr> </tbody> </table>									Report and Billing Instruction		Analysis Request		Seal# (Release #)		Kaiser-Hill <input checked="" type="checkbox"/>	Verbal To: <u>A. G. 001-001</u>	Industrial Hygiene Sample		Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken		RMRS <input type="checkbox"/>	Fax To: <u>6628</u>	Rush <input type="checkbox"/> Other <input type="checkbox"/>		Signature: <u>[Signature]</u>		SSOC <input type="checkbox"/>	Report To: <u>A. G. 001-001</u>	Asbestos Samples		Comments: <u>verified by [Signature]</u>		DynCorp <input type="checkbox"/>	Bill To: <u>RH</u>	Rush <input type="checkbox"/> 24 Rush <input type="checkbox"/>				WSI <input type="checkbox"/>	P.O.#/Release: <u>FED4444</u>	Standard Service <input type="checkbox"/>				57	Lab: <u>JM</u>	Standard Service <input type="checkbox"/>			
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Kaiser-Hill <input checked="" type="checkbox"/>	Verbal To: <u>A. G. 001-001</u>	Industrial Hygiene Sample		Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken																																														
RMRS <input type="checkbox"/>	Fax To: <u>6628</u>	Rush <input type="checkbox"/> Other <input type="checkbox"/>		Signature: <u>[Signature]</u>																																														
SSOC <input type="checkbox"/>	Report To: <u>A. G. 001-001</u>	Asbestos Samples		Comments: <u>verified by [Signature]</u>																																														
DynCorp <input type="checkbox"/>	Bill To: <u>RH</u>	Rush <input type="checkbox"/> 24 Rush <input type="checkbox"/>																																																
WSI <input type="checkbox"/>	P.O.#/Release: <u>FED4444</u>	Standard Service <input type="checkbox"/>																																																
57	Lab: <u>JM</u>	Standard Service <input type="checkbox"/>																																																

# PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER

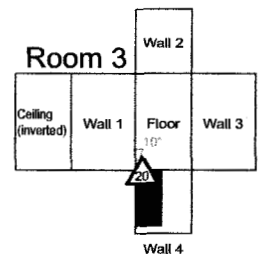
Survey Area: A      Survey Unit: 442-A-003      Classification: N/A  
 Building: 442W  
 Survey Unit Description: Interior of B442W



<b>SURVEY MAP LEGEND</b> (M) Asbestos Sample Location (A) Beryllium Sample Location (P) Lead Sample Location (C) RCRA/CERCLA Sample Location (S) PCB Sample Location	Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.	N ↑	0 30 FEET 0 10 METERS 1 inch = 24 feet 1 grid sq. = 1 sq. m.	U.S. Department of Energy Rocky Flats Environmental Technology Site Prepared by: GHS Dept. 303-960-770 Prepared for: <b>DynCorp</b> THE ART OF TECHNOLOGY KAISER HILL MAP ID: fv2001/01-0303 March 8, 2001
---	--	-----	--	--

58

**Survey Area: A**      **Survey Unit: 442-A-003**      **Classification: N/A**  
**Building: 442W**  
**Survey Unit Description: Interior of B442W**



**SURVEY MAP LEGEND**

Asbestos Sample Location  
 Beryllium Sample Location  
 Lead Sample Location  
 RCRA/CERCLA Sample Location  
 PCBs Sample Location

Open/Inaccessible Area  
 Area in Another Survey Unit

Neither the United States Government nor Kaiser Hill Co., nor  
 DynCorp, nor any agency thereof, nor any of their  
 employees, makes any warranty, express or implied, or assumes  
 any legal liability or responsibility for the accuracy, completeness,  
 or usefulness of any information, apparatus, product, or process  
 disclosed, or represents that its use would not infringe privately  
 owned rights.

0 30  
 FEET  
 0 10  
 METERS

1 inch = 24 feet 1 grid sq. = 1 sq. m.

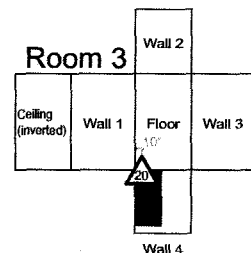
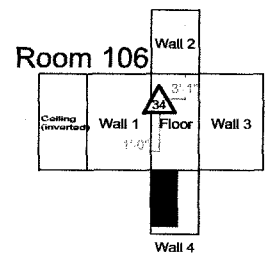
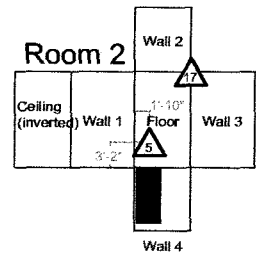
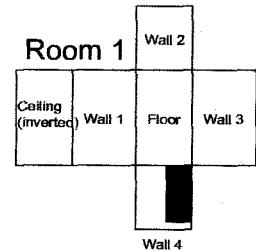
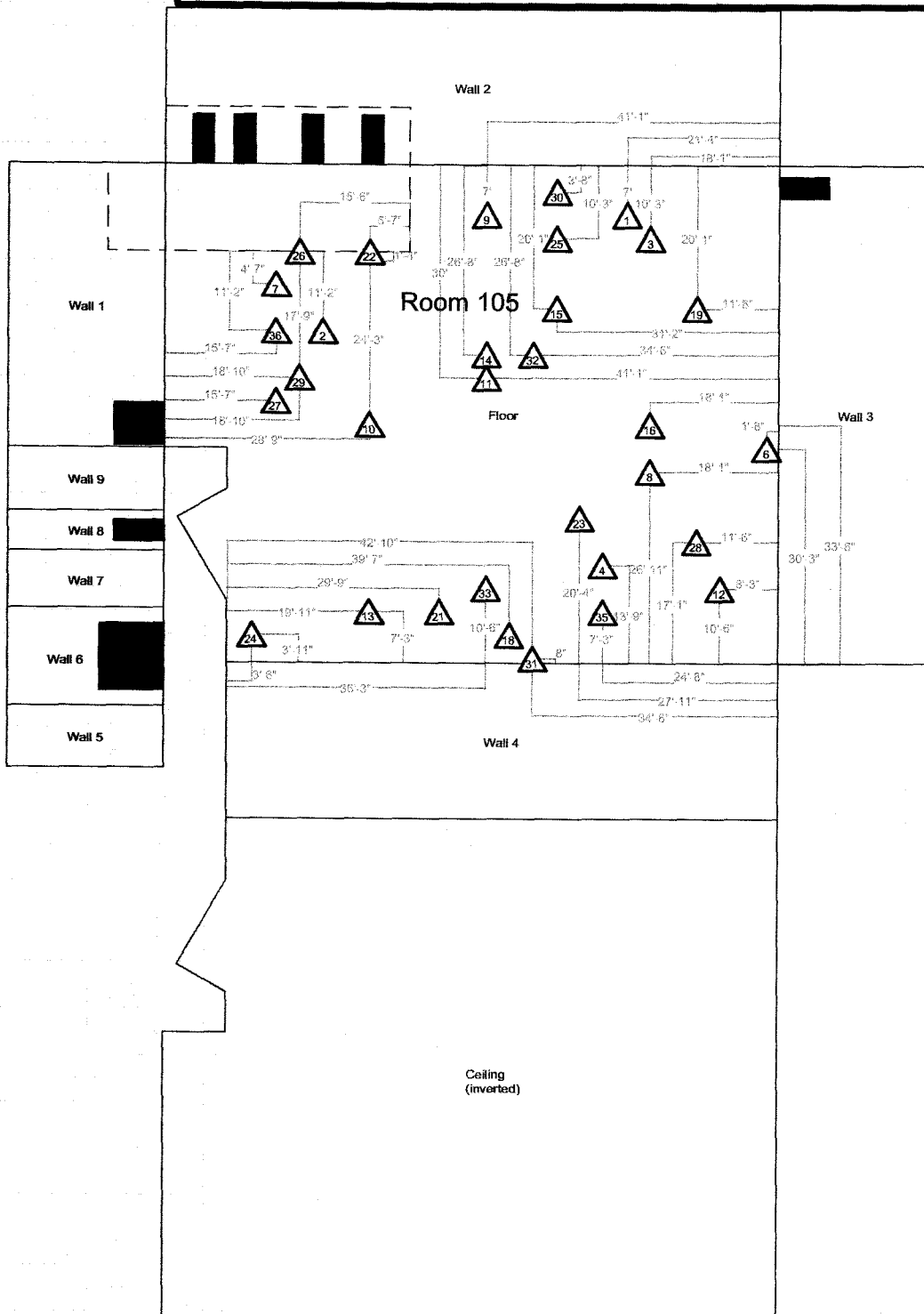
U.S. Department of Energy  
 Rocky Flats Environmental Technology Site

Prepared by: GHS Dept. 303-968-770 Prepared for:  
**DynCorp**  
 THE ART OF TECHNOLOGY

MAP ID: 6-2000/04-0003 March 8, 2001

## PRE-DEMOLITION SURVEY FOR GROUP 5 CLUSTER

**Survey Area: A**      **Survey Unit: 442-A-003**      **Classification: N/A**  
**Building: 442W**  
**Survey Unit Description: Interior of B442W**



SURVEY MAP LEGEND		U.S. Department of Energy Rocky Flats Environmental Technology Site	
	Asbestos Sample Location	  0 30 FEET 0 10 METERS 1 inch = 24 feet 1 grid sq. = 1 sq. m.	Prepared by: GIS Dept. 303-868-7770 Prepared for: <b>DynCorp</b> THE ART OF TECHNOLOGY MAP ID: fv2001/01-0303 KAISER HILL March 8, 2001
	Beryllium Sample Location		
	Lead Sample Location		
	RCRA/CERCLA Sample Location		
	PCBS Sample Location		
	Open/Inaccessible Area		
	Area in Another Survey Unit		

April 2, 2001

**Laboratory Report ID:** 01032806  
**Laboratory Name:** JMTC IH Analytical Laboratory  
**Laboratory Code:** JMANS  
**Subcontract Number:** 800188SX6  
**RIN:** 01D0632  
**Requestor:** Andre Gonzalez  
**P.O./Charge Code:** EDD30120

## QUICK RESULTS SUMMARY

Line Item Code: NR01A001  
Sample Matrix: WIPE  
Analytical Method: OSHA ID-125G

Reporting Limit: 0.1 µg  
Date Received: 03/28/01  
Date Analyzed: 03/30/01

Customer Number	Laboratory ID Number	Requested Analysis	CONCENTRATION			T	Q	Constituent ID
			Backup	Main	Total			
442W-03142001-05-031	01032806-047	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-032	01032806-048	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-033	01032806-049	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-034	01032806-050	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-035	01032806-051	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-036	01032806-052	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-037	01032806-053	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-038	01032806-054	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-039	01032806-055	Beryllium			< 0.1 µg	TR1	U	7440-41-7

78  
88  
83

April 2, 2001

**Laboratory Report ID:** 01032903  
**Laboratory Name:** JMTC IH Analytical Laboratory  
**Laboratory Code:** JMANS  
**Subcontract Number:** 800188SX6  
**RIN:** 01D0654  
**Requestor:** Andre Gonzalez  
**P.O./Charge Code:** EDD30120

## QUICK RESULTS SUMMARY

Line Item Code: NR01A001  
Sample Matrix: WIPE  
Analytical Method: OSHA ID-125G

Reporting Limit: 0.1 µg  
Date Received: 03/29/01  
Date Analyzed: 04/02/01

Customer Number	Laboratory ID Number	Requested Analysis	CONCENTRATION			T	Q	Constituent ID
			Backup	Main	Total			
442W-03282001-05-001	01032903-001	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03282001-05-002	01032903-002	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03282001-05-003	01032903-003	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03282001-05-004	01032903-004	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03282001-05-001	01032903-005	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03282001-05-002	01032903-006	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03282001-05-003	01032903-007	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03282001-05-004	01032903-008	Beryllium			< 0.1 µg	TR1	U	7440-41-7

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# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

RFP F 3791.32 (7/95)  
Formerly RF-47530

0100632

Name of Originator: <u>16mbr</u>		Title:		Bldg/Ext:		Date:		Page 2 of 4	
SAMPLE NUMBER Bldg/Y/M/D/P#/S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number	
442W-03142001-05-001	35						1000, A001		
442W-03142001-05-002									
442W-03142001-05-003									
442W-03142001-05-004									
442W-03142001-05-005									
442W-03142001-05-006									
442W-03142001-05-007									
442W-03142001-05-008									
442W-03142001-05-009									
442W-03142001-05-010									
442W-03142001-05-011									
442W-03142001-05-012									
442W-03142001-05-013									
442W-03142001-05-014									
442W-03142001-05-015									
442W-03142001-05-016									

Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
<u>[Signature]</u>	<u>[Signature]</u>	<u>01/10/97</u>			
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date

Report and Billing Instruction		Analysis Request		Seal# (Release #)
Kaiser-Hill <input checked="" type="checkbox"/>	Verbal To: _____	<input checked="" type="checkbox"/> Standard Service	Industrial Hygiene Sample	Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken
RMRS <input type="checkbox"/>	Fax To: _____	<input type="checkbox"/> Rush	Other _____	
SSOC <input type="checkbox"/>	Report To: _____	Asbestos Samples		Signature: _____
DynCorp <input type="checkbox"/>	Bill To: _____	<input type="checkbox"/> Standard Service	<input type="checkbox"/> Rush	Comments: _____
WSI <input type="checkbox"/>	P.O.#/Release: <u>00000000</u>	<input type="checkbox"/> Standard Service	<input type="checkbox"/> Rush	
Lab: <u>63</u>				

White - Return to Originator    Yellow - Lab Copy    Green - Sample Custodian    Blue - Originator

# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

RFP F3791.32 (7/95)  
Formerly RF-47530

Name of Originator: Amber Gumbel Title: TH-1 Bldg/Ext: 106/6277 Date: 3/26/01 Page 3 of 4

SAMPLE NUMBER Bldg/Y/M/D/P#/S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number
442W-23142001-05-017	3F						NA01A021	
442W-23142001-05-018								
442W-23142001-05-019								
442W-23142001-05-020								
442W-23142001-05-021								
442W-23142001-05-022								
442W-23142001-05-023								
442W-23142001-05-024								
442W-23142001-05-025								
442W-23142001-05-026								
442W-23142001-05-027								
442W-23142001-05-028								
442W-23142001-05-029								
442W-23142001-05-030								
442W-23142001-05-031								
442W-23142001-05-032								

Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
<u>[Signature]</u>	<u>[Signature]</u>	<u>09/03/01</u>			
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date

Report and Billing Instruction		Analysis Request		Seal# (Release #)
Kaiser-Hill <input checked="" type="checkbox"/>	Verbal To: _____	Industrial Hygiene Sample		Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken
RMRS <input type="checkbox"/>	Fax To: _____	Rush <input type="checkbox"/> Other <input type="checkbox"/>		Signature: _____ Comments: _____
SSOC <input type="checkbox"/>	Report To: _____	Asbestos Samples		
DynCorp <input type="checkbox"/>	Bill To: _____	Rush <input type="checkbox"/> 24 Rush <input type="checkbox"/> Other <input type="checkbox"/>		
WSI <input type="checkbox"/>	P.O.#/Release: _____			
Lab: <u>61</u>				

White - Return to Originator Yellow - Lab Copy Green - Sample Custodian Blue - Originator



RFP F 3791.32 (7/95)  
Formerly RF-47530

## Safety and Hygiene Chain of Custody Record and Analysis Request

Page 4 of 4

SAMPLE NUMBER Bldg/Y/M/D/P/#/S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	REMARKS	Lab Number
				A B Bulk		

Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date

<b>Kaiser-Hill</b> <input checked="" type="checkbox"/> <b>RMRS</b> <input type="checkbox"/> <b>SSOC</b> <input type="checkbox"/> <b>DynCorp</b> <input type="checkbox"/> <b>WSI</b>	Verbal To:	_____	<b>Industrial Hygiene Sample</b> <input type="checkbox"/> <b>Standard Service</b> <input type="checkbox"/> <b>Rush</b> <input type="checkbox"/> <b>Other</b>	<b>Condition of Seal:</b> <input type="checkbox"/> <b>Broken</b> <input type="checkbox"/> <b>Unbroken</b>
	Fax To:	_____		
	Report To:	_____		
	Bill To:	_____		
	P.O. #/Release:	_____		
Lab:	_____	<b>Asbestos Samples</b> <input type="checkbox"/> <b>24</b> <input type="checkbox"/> <b>Rush</b> <input type="checkbox"/> <b>2</b> <input type="checkbox"/> <b>Other</b>	<b>Signature:</b> _____ <b>Comments:</b> _____ _____ _____ _____	

White - Return to Originator    Yellow - Lab Copy    Green - Sample Custodian    Blue - Originator

SURVEY UNIT 442-A-001 CHEMICAL  
RANDOM START DATA SHEET

Measurement Location	Page	X-Coord	Y-Coord	Measurement Location	Page	X-Coord	Y-Coord
	1	11	14		1	13	28
	1	45	53		1	53	1
1	1	48	9		1	53	26
	1	47	55		1	19	2
	1	38	36		1	46	20
	1	25	32		1	26	29
	1	2	30		1	29	23
	1	21	18		1	0	23
	1	32	10	2	1	38	20
	1	21	35		1	40	49
	1	39	16	3	1	37	22
	1	46	36		1	21	21
	1	55	17		1	28	1
	1	46	19		1	4	17
	1	30	8	4	1	42	23
	1	48	25		1	55	36
	1	20	14	5	1	11	7
	1	9	14		1	32	28
	1	35	12		1	52	47
	1	16	15		1	32	13
	1	18	30		1	9	12
	1	48	26		1	7	17
	1	52	17		1	47	20
	1	0	38		1	14	51
	1	35	35		1	19	36
	1	52	11		1	30	1
	1	19	17		1	50	5
	1	41	1		1	13	52
	1	37	42		1	4	25
	1	34	15		1	5	48
	1	1	42		1	17	25
	1	19	8		1	10	27
	1	36	39		1	47	52
	1	48	13		1	49	7
	1	14	13		1	34	2
	1	32	15		1	1	30
	1	46	28	6	1	20	39
	1	55	18		1	10	50
	1	4	10	7	1	28	10
	1	10	17		1	2	7
	1	5	46		1	12	15
	1	2	20		1	35	8
	1	51	24		1	32	34
	1	45	38		1	54	18
	1	21	50		1	17	46

LEGEND:

C-N/A = UNPAINTED CEILING  
X-N/A = > NUMBER OF SAMPLES  
REQUIRED

REVIEWED BY SIGNATURE:

*DRP* 2/20/01

SURVEY UNIT 442-A-001 CHEMICAL  
RANDOM START DATA SHEET

Measurement Location	Page	X-Coord	Y-Coord	Measurement Location	Page	X-Coord	Y-Coord
	1	18	53		1	38	35
	1	2	7		1	47	3
	1	13	2		1	4	54
	1	33	17		1	19	13
	1	16	34		1	7	21
	1	12	43		1	41	2
	1	36	33		1	2	5
	1	35	5	9	1	45	9
	1	3	34		1	16	55
	1	7	51		1	55	31
	1	54	47		1	6	25
	1	42	11		1	7	50
	1	42	53		1	8	14
	1	53	0		1	54	41
	1	19	40		1	19	6
	1	3	30		1	51	50
	1	19	30		1	48	47
	1	5	19		1	44	40
	1	13	2		1	47	4
	1	4	30		1	45	0
	1	15	31	10	1	43	24
	1	25	53		1	28	15
	1	9	3		1	55	33
	1	10	36		1	26	54
8	1	27	49		1	11	34
	1	6	48		1	37	48
	1	44	55		1	40	29
	1	14	24		1	16	35
	1	9	18		1	53	16
	1	53	47		1	55	44
	1	34	4		1	47	43
	1	49	22		1	6	6
	1	23	10		1	44	18
	1	1	34		1	32	4
	1	3	30		1	3	30
	1	30	4		1	25	54
	1	43	19		1	34	25
	1	47	45		1	54	24
	1	19	19		1	37	3
	1	55	52		1	5	55
	1	11	5		1	47	2
	1	50	25		1	31	42
	1	29	43		1	43	14
	1	23	18		1	35	44
	1	33	50	11	1	38	22

LEGEND:

C-N/A = UNPAINTED CEILING  
X-N/A = > NUMBER OF SAMPLES  
REQUIRED

REVIEWED BY SIGNATURE:

*MRP 2/20/01*

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SURVEY UNIT 442-A-001 CHEMICAL  
RANDOM START DATA SHEET

Measurement Location	Page	X-Coord	Y-Coord	Measurement Location	Page	X-Coord	Y-Coord
	1	8	20		1	42	10
	1	14	26		1	36	31
	1	39	49		1	36	37
	1	17	49		1	53	22
	1	32	26		1	31	22
12	1	20	45		1	27	23
	1	48	30		1	17	6
	1	15	19		1	15	16
	1	16	28		1	35	43
	1	51	43		1	53	28
	1	46	43		1	1	17
	1	11	27		1	26	8
	1	53	30		1	2	17
	1	41	14		1	19	9
	1	2	44		1	16	14
	1	18	32		1	25	53
	1	35	54		1	27	5
	1	2	12		1	2	21
	1	21	33		1	9	52
	1	45	55		1	52	11
13	1	28	47		1	32	9
	1	4	37		1	9	37
	1	2	18		1	34	13
	1	45	12		1	39	13
	1	31	16		1	50	25
	1	31	5		1	48	24
	1	19	26		1	16	0
	1	40	34		1	32	55
	1	48	25		1	44	9
14	1	20	47		1	47	48
	1	36	44		1	51	4
	1	37	28		1	4	43
	1	16	31		1	36	20
	1	51	24		1	36	14
	1	38	31		1	27	11
	1	48	35		1	25	10
	1	49	39		1	30	17
	1	13	22		1	43	45
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	1	27	22		1	46	49
	1	20	3		1	46	0
15	1	44	9		1	24	1
	1	17	20		1	15	20
	1	16	5		1	13	23
	1	8	17		1	50	32

LEGEND:

C-N/A = UNPAINTED CEILING  
X-N/A = > NUMBER OF SAMPLES  
REQUIRED

REVIEWED BY SIGNATURE:

*AKO* 2/20/01

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SURVEY UNIT 442-A-003 CHEMICAL  
RANDOM START DATA SHEET

Measurement Location	Page	X-Coord	Y-Coord	Measurement Location	Page	X-Coord	Y-Coord
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	1	45	15	<del>32</del>	1	32	1
	1	7	0		1	36	52
<del>3</del>	1	53	47		1	45	38
4	1	47	10	33	1	22	31
<del>5</del>	1	7	32		1	46	12
<del>6</del>	1	15	16	<del>34</del>	1	36	48
	1	55	5	35	1	27	30
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	1	48	14	<del>36</del>	1	16	55
8	1	49	25	3	1	29	46
<del>9</del>	1	26	54		1	3	35
<del>10</del>	1	47	19		1	10	13
<del>11</del>	1	48	21		1	19	17
	1	4	9		1	34	6
	1	50	27		1	47	28
	1	15	16		1	47	6
	1	53	2		1	49	49
	1	37	5		1	51	13
42	1	7	23	4	1	27	32
<del>13</del>	1	40	36		1	9	21
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<del>16</del>	1	15	4		1	10	1
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	1	37	0		1	36	3
<del>18</del>	1	34	15		1	37	15
19	1	31	43		1	37	41
20	1	48	6		1	5	48
21	1	20	30	7	1	13	44
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23	1	26	34		1	42	54
	1	37	38		1	31	27
	1	43	17		1	38	14
	1	1	12	8	1	29	36
24	1	28	54	9	1	22	47
25	1	25	46	10	1	17	38
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26	1	14	47		1	6	41
27	1	13	39		1	27	26
<del>28</del>	1	30	22		1	52	5
<del>29</del>	1	25	50		1	30	52
	1	3	21	11	1	22	40

LEGEND:

C-N/A = UNPAINTED CEILING  
X-N/A = > NUMBER OF SAMPLES  
REQUIRED

REVIEWED BY SIGNATURE:

*ARP* 2/21/01

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SURVEY UNIT 442-A-003 CHEMICAL  
RANDOM START DATA SHEET

Measurement Location	Page	X-Coord	Y-Coord	Measurement Location	Page	X-Coord	Y-Coord
	1	7	48	22	1	17	46
	1	7	31		1	24	54
12	1	32	31		1	29	19
	1	46	24		1	6	3
	1	2	47		1	19	20
	1	36	49		1	5	23
	1	10	54		1	44	14
	1	40	40		1	40	40
	1	46	29		1	47	8
	1	28	22		1	8	4
	1	51	47		1	12	2
	1	18	26		1	53	13
13	1	17	30		1	11	16
	1	44	24		1	34	17
	1	45	16	24	1	12	29
14	1	22	41		1	35	32
	1	37	15	28	1	31	33
	1	4	51	29	1	14	40
	1	41	12		1	14	15
16	1	29	38		1	39	55
	1	36	19		1	42	20
17	1	51	36		1	25	25
	1	50	29	31	1	24	28
	1	51	21		1	29	15
	1	35	4		1	23	55
	1	37	52	32	1	24	41
18	1	23	29		1	37	54
	1	49	29		1	19	17
	1	22	7		1	2	40
	1	46	22		1	6	33
	1	53	32		1	26	21
	1	4	14		1	17	16
	1	42	25	34	1	49	22
	1	47	25		1	53	7
	1	19	8	36	1	13	42
	1	53	29		1	9	28
	1	24	51		1	4	52
	1	18	51		1	25	53
	1	3	28		1	38	23
	1	4	44		1	46	21
	1	36	26		1	25	34
	1	35	30		1	26	12
	1	10	21		1	35	55
	1	0	32		1	38	25
	1	43	18		1	7	33

LEGEND:

C-N/A = UNPAINTED CEILING  
X-N/A = > NUMBER OF SAMPLES  
REQUIRED

REVIEWED BY SIGNATURE:

*DAF 7/21/01*



**Johns Manville**

Johns Manville Corporation  
10100 W. Ute Avenue (80127)  
P.O. Box 625005  
Littleton, CO 80162-5005  
303 978 2000

## COVER PAGE

April 2, 2001

Rocky Flats Environmental Technology Site  
Ms. Shelly Johnsen  
P.O. Box 464, Building 881  
Golden, CO 80402-0464

**Laboratory Report ID:** 01032903  
**Laboratory Name:** JMTC IH Analytical Laboratory  
**Laboratory Code:** JMANS  
**Subcontract Number:** 800188SX6  
**RIN:** 01D0654  
**Requestor:** Andre Gonzalez  
**P.O./Charge Code:** EDD30120

Dear Ms. Johnsen:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request. The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and participates in the AIHA ELPAT program. If you have any questions, please call (303) 978-2584.

### Scope of Work:

Requested Analysis	Bottle Number(s)	Customer Number(s)	Laboratory ID Number	Line Item Code	Sample Matrix
Beryllium	01D0654-001.001	442W-03282001-05-001	01032903-001	NR01A001	WIPE
Beryllium	01D0654-002.001	442W-03282001-05-002	01032903-002	NR01A001	WIPE
Beryllium	01D0654-003.001	442W-03282001-05-003	01032903-003	NR01A001	WIPE
Beryllium	01D0654-004.001	442W-03282001-05-004	01032903-004	NR01A001	WIPE
Beryllium	01D0654-005.001	442L-03282001-05-001	01032903-005	NR01A001	WIPE
Beryllium	01D0654-006.001	442L-03282001-05-002	01032903-006	NR01A001	WIPE
Beryllium	01D0654-007.001	442L-03282001-05-003	01032903-007	NR01A001	WIPE
Beryllium	01D0654-008.001	442L-03282001-05-004	01032903-008	NR01A001	WIPE

**Comments:** No problem were encountered with sample receiving and sample analysis

I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

\_\_\_\_\_  
Scott A. Steiner  
Industrial Hygiene Project Manager

\_\_\_\_\_  
Date

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April 2, 2001

**Laboratory Report ID:** 01032903  
**Laboratory Name:** JMTC IH Analytical Laboratory  
**Laboratory Code:** JMANS  
**Subcontract Number:** 800188SX6  
**RIN:** 01D0654  
**Requestor:** Andre Gonzalez  
**P.O./Charge Code:** EDD30120

## QUICK RESULTS SUMMARY

Line Item Code: NR01A001  
Sample Matrix: WIPE  
Analytical Method: OSHA ID-125G

Reporting Limit: 0.1 µg  
Date Received: 03/29/01  
Date Analyzed: 04/02/01

Customer Number	Laboratory ID Number	Requested Analysis	CONCENTRATION			T	Q	Constituent ID
			Backup	Main	Total			
442W-03282001-05-001	01032903-001	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03282001-05-002	01032903-002	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03282001-05-003	01032903-003	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03282001-05-004	01032903-004	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03282001-05-001	01032903-005	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03282001-05-002	01032903-006	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03282001-05-003	01032903-007	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03282001-05-004	01032903-008	Beryllium			< 0.1 µg	TR1	U	7440-41-7

72



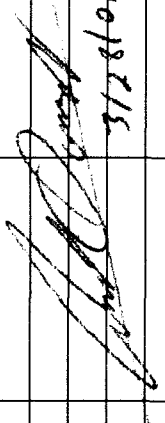
# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

01D0654

RFP F 3791.32 (7/95)  
Formerly RF-47530

Name of Originator: <u>Andie Gonzalez</u> Title: <u>IHS</u> Bldg/Ext: <u>116X6727</u> Date: <u>3/28/01</u> Page <u>1</u> of <u>1</u>								
SAMPLE NUMBER Bldg/Y/M/D/P#S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/ TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number
442W-03282001-05-001	Beryllium						<del>NR</del> NR01A001	
442W-03282001-05-002								
442W-03282001-05-003								
442W-03282001-05-004								
442L-03282001-05-001								
442L-03282001-05-002								
442L-03282001-05-003								
442L-03282001-05-004								
 <u>3/28/01</u>								
<div style="display: flex; justify-content: space-between;"> <div> Relinquished by <u>[Signature]</u>  Relinquished by <u>[Signature]</u> </div> <div> Time/Date <u>3/28/01</u>  Time/Date <u>3/28/01</u> </div> <div> Received by <u>[Signature]</u>  Received by <u>[Signature]</u> </div> <div> Time/Date <u>3/28/01</u>  Time/Date <u>3/28/01</u> </div> </div>								
<div style="display: flex; justify-content: space-between;"> <div> Relinquished by  Relinquished by </div> <div> Time/Date  Time/Date </div> <div> Received by  Received by </div> <div> Time/Date  Time/Date </div> </div>								
<div style="display: flex; justify-content: space-between;"> <div> Relinquished by  Relinquished by </div> <div> Time/Date  Time/Date </div> <div> Received by  Received by </div> <div> Time/Date  Time/Date </div> </div>								
<div style="display: flex; justify-content: space-between;"> <div> Relinquished by  Relinquished by </div> <div> Time/Date  Time/Date </div> <div> Received by  Received by </div> <div> Time/Date  Time/Date </div> </div>								
<div style="display: flex; justify-content: space-between;"> <div> Report and Billing Instruction  Kaiser-Hill <input checked="" type="checkbox"/>  RMRS <input type="checkbox"/>  SSOC <input type="checkbox"/>  DynCorp <input type="checkbox"/>  WSI <input type="checkbox"/>  73 </div> <div> Verbal To: <u>A Gonzalez</u>  Fax To: <u>6678</u>  Report To: <u>A Gonzalez</u>  Bill To: <u>KH</u>  P.O.#/Release: <u>EDD30120</u>  Lab: <u>JM</u> </div> <div> Analysis Request  Industrial Hygiene Sample <input type="checkbox"/>  Rush <input type="checkbox"/> Other <input type="checkbox"/>  Asbestos Samples <input type="checkbox"/>  24 Rush <input type="checkbox"/> Other <input type="checkbox"/> </div> <div> Seal# (Release #)  Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken  Signature: <u>NV</u>  Comments: <u>FY/HK</u> </div> </div>								

White - Return to Originator Yellow - Lab Copy Green - Sample Custodian Blue - Originator

# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

RFP F 3791.32 (7/95)  
Formerly RF-47530

Name of Originator: <u>Andie Gonzalez</u>		Title: <u>THV1</u>		Bldg/Ext: <u>1161 0207</u>		Date: <u>3/21/01</u>		Page <u>1</u> of <u>4</u>	
SAMPLE NUMBER Bldg/Y/M/D/P#S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number	
44226-03142001-05-001	<u>7E</u>								
44226-03142001-05-002									
44226-03142001-05-003									
44226-03142001-05-004									
44226-03142001-05-005									
44226-03142001-05-006									
44226-03142001-05-007									
44226-03142001-05-008									
44226-03142001-05-009									
44226-03142001-05-010									
44226-03142001-05-011									
44226-03142001-05-012									
44226-03142001-05-013									
44226-03142001-05-014									
44226-03142001-05-015									
44226-03142001-05-016									

Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
<u>[Signature]</u>	<u>[Signature]</u>	<u>09/10/3776</u>			
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date

Report and Billing Instruction		Analysis Request		Seal# (Release #)
Kaiser-Hill <input checked="" type="checkbox"/>	Verbal To: <u>A Gonzalez</u>	Industrial Hygiene Sample	<input type="checkbox"/> Rush	Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken  Signature: _____ Comments: <u>unable to verify contents of P111</u> <u>010632</u> <u>03/21/01</u>
RMRS <input type="checkbox"/>	Fax To: <u>6617</u>	Asbestos Samples	<input type="checkbox"/> Rush <input type="checkbox"/> 24 Rush	
SSOC <input type="checkbox"/>	Report To: <u>A Gonzalez</u>			
DynCorp <input type="checkbox"/>	Bill To: <u>K4</u>			
WSI <input type="checkbox"/>	P.O.#/Release: <u>FDD30110</u>			
Lab: <u>74</u>				

White - Return to Originator    Yellow - Lab Copy    Green - Sample Custodian    Blue - Originator

# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

RFP F 3791.32 (7/95)  
Formerly RF-47530

0100632

Name of Originator: <u>A. Gumbert</u>		Title:		Bldg/Ext:		Date:		Page 2 of 4	
SAMPLE NUMBER Bldg/Y/M/D/P#/S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number	
442W-03142001-05-001	BE								
442W-03142001-05-002									
442W-03142001-05-003									
442W-03142001-05-004									
442W-03142001-05-005									
442W-03142001-05-006									
442W-03142001-05-007									
442W-03142001-05-008									
442W-03142001-05-009									
442W-03142001-05-010									
442W-03142001-05-011									
442W-03142001-05-012									
442W-03142001-05-013									
442W-03142001-05-014									
442W-03142001-05-015									
442W-03142001-05-016									

Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
<u>[Signature]</u>	<u>[Signature]</u>	0410 3/7/61			
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date

Report and Billing Instruction		Analysis Request		Seal# (Release #)
Kaiser-Hill	Verbal To:	Industrial Hygiene Sample		Condition of Seal:
RMRS	Fax To:	<input checked="" type="checkbox"/> Standard Service	<input type="checkbox"/> Rush	<input type="checkbox"/> Broken
SSOC	Report To:	<input type="checkbox"/> Asbestos Samples	<input type="checkbox"/> Other	<input type="checkbox"/> Unbroken
DynCorp	Bill To:	<input type="checkbox"/> 24 Rush	<input type="checkbox"/> 2 Rush	Signature:
WSI	P.O.#/Release: <u>0003022</u>	<input type="checkbox"/> Standard Service	<input type="checkbox"/> Other	Comments:
75	Lab:			

White - Return to Originator    Yellow - Lab Copy    Green - Sample Custodian    Blue - Originator

# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

RFP F 3791.32 (7/95)  
Formerly RF-47530

Name of Originator: <u>Arba Garcia</u>		Title: <u>JH-1</u>		Bldg/Ext: <u>116/6777</u>		Date: <u>3/26/01</u>		Page <u>3</u> of <u>4</u>	
SAMPLE NUMBER Bldg/Y/M/D/P#/S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A B	Personal Area Bulk	REMARKS	Lab Number	
442W-23142001-05-017	BE						NAULA 001		
442W-23142001-05-018									
442W-23142001-05-019									
442W-23142001-05-020									
442W-23142001-05-021									
442W-23142001-05-022									
442W-23142001-05-023									
442W-23142001-05-024									
442W-23142001-05-025									
442W-23142001-05-026									
442W-23142001-05-027									
442W-23142001-05-028									
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442W-23142001-05-030									
442W-23142001-05-031									
442W-23142001-05-032									

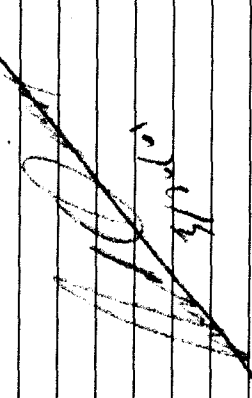
  

Relinquished by <u>[Signature]</u>	Received by <u>[Signature]</u>	Time/Date <u>04/10/3/27/01</u>	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date

Report and Billing Instruction		Analysis Request		Seal# (Release #)	
Kaiser-Hill <input checked="" type="checkbox"/>	Verbal To:	<input checked="" type="checkbox"/> Standard Service	Industrial Hygiene Sample	Condition of Seal:	<input type="checkbox"/> Broken <input type="checkbox"/> Unbroken
RMRS <input type="checkbox"/>	Fax To:	<input type="checkbox"/> Standard Service	Rush <input type="checkbox"/> Other <input type="checkbox"/>	Signature:	
SSOC <input type="checkbox"/>	Report To:	<input type="checkbox"/> Standard Service	Asbestos Samples	Comments:	
DynCorp <input type="checkbox"/>	Bill To:	<input type="checkbox"/> Standard Service	Rush <input type="checkbox"/> Other <input type="checkbox"/>		
WSI <input type="checkbox"/>	P.O.#/Release:				
	Lab:				

White - Return to Originator Yellow - Lab Copy Green - Sample Custodian Blue - Originator

SAMPLE NUMBER Bldg/Y/M/D/P#/S#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P		REMARKS	Lab Number
					Area	Bulk		
44164-03142001-05-033	BE						NR01A001	
44164-03142001-05-034								
44164-03142001-05-035								
44164-03142001-05-036								
44164-03142001-05-037								
44164-03142001-05-038								
44164-03142001-05-039								
<div style="text-align: center;">  </div>								

Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
<i>[Signature]</i>	<i>[Signature]</i>	08/10/97			
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date
Relinquished by	Received by	Time/Date	Relinquished by	Received by	Time/Date

Report and Billing Instruction		Analysis Request		Seal# (Release #)
Kaiser-Hill <input checked="" type="checkbox"/>	Verbal To: _____	Industrial Hygiene Sample		Condition of Seal: <input type="checkbox"/> Broken <input type="checkbox"/> Unbroken
RMRS <input type="checkbox"/>	Fax To: _____	<input type="checkbox"/> Rush <input type="checkbox"/> Other		
SSOC <input type="checkbox"/>	Report To: _____	Asbestos Samples		Signature: _____ Comments: _____
DynCorp <input type="checkbox"/>	Bill To: _____	<input type="checkbox"/> Rush <input type="checkbox"/> Other		
WSI <input type="checkbox"/>	P.O.#/Release: _____	<input type="checkbox"/> Standard Service <input type="checkbox"/> Rush		
Lab: _____				

April 2, 2001

Laboratory Report ID: 01032806  
Laboratory Name: JMTc IH Analytical Laboratory  
Laboratory Code: JMANS  
Subcontract Number: 800188SX6  
RIN: 01D0632  
Requestor: Andre Gonzalez  
P.O./Charge Code: EDD30120

## QUICK RESULTS SUMMARY

Line Item Code: NR01A001  
Sample Matrix: WIPE  
Analytical Method: OSHA ID-125G

Reporting Limit: 0.1 µg  
Date Received: 03/28/01  
Date Analyzed: 03/30/01

Customer Number	Laboratory ID Number	Requested Analysis	CONCENTRATION			T	Q	Constituent ID
			Backup	Main	Total			
442W-03142001-05-008	01032806-024	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-009	01032806-025	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-010	01032806-026	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-011	01032806-027	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-012	01032806-028	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-013	01032806-029	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-014	01032806-030	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-015	01032806-031	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-016	01032806-032	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-017	01032806-033	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-018	01032806-034	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-019	01032806-035	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-020	01032806-036	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-021	01032806-037	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-022	01032806-038	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-023	01032806-039	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-024	01032806-040	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-025	01032806-041	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-026	01032806-042	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-027	01032806-043	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-028	01032806-044	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-029	01032806-045	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-030	01032806-046	Beryllium			< 0.1 µg	TR1	U	7440-41-7

April 2, 2001

Laboratory Report ID: 01032806  
Laboratory Name: JMTC IH Analytical Laboratory  
Laboratory Code: JMANS  
Subcontract Number: 800188SX6  
RIN: 01D0632  
Requestor: Andre Gonzalez  
P.O./Charge Code: EDD30120

## QUICK RESULTS SUMMARY

Line Item Code: NR01A001  
Sample Matrix: WIPE  
Analytical Method: OSHA ID-125G

Reporting Limit: 0.1 µg  
Date Received: 03/28/01  
Date Analyzed: 03/30/01

Customer Number	Laboratory ID Number	Requested Analysis	CONCENTRATION			T	Q	Constituent ID
			Backup	Main	Total			
442W-03142001-05-031	01032806-047	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-032	01032806-048	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-033	01032806-049	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-034	01032806-050	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-035	01032806-051	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-036	01032806-052	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-037	01032806-053	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-038	01032806-054	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-039	01032806-055	Beryllium			< 0.1 µg	TR1	U	7440-41-7

FB  
FB  
FB

April 2, 2001

Laboratory Report ID: 01032806  
Laboratory Name: JMTC IH Analytical Laboratory  
Laboratory Code: JMANS  
Subcontract Number: 800188SX6  
RIN: 01D0632  
Requestor: Andre Gonzalez  
P.O./Charge Code: EDD30120

## QUICK RESULTS SUMMARY

Line Item Code: NR01A001  
Sample Matrix: WIPE  
Analytical Method: OSHA ID-125G

Reporting Limit: 0.1 µg  
Date Received: 03/28/01  
Date Analyzed: 03/30/01

Customer Number	Laboratory ID Number	Requested Analysis	CONCENTRATION			T	Q	Constituent ID
			Backup	Main	Total			
442L-03142001-05-001	01032806-001	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-002	01032806-002	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-003	01032806-003	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-004	01032806-004	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-005	01032806-005	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-006	01032806-006	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-007	01032806-007	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-008	01032806-008	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-009	01032806-009	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-010	01032806-010	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-011	01032806-011	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-012	01032806-012	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-013	01032806-013	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-014	01032806-014	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-015	01032806-015	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-03142001-05-016	01032806-016	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-001	01032806-017	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-002	01032806-018	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-003	01032806-019	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-004	01032806-020	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-005	01032806-021	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-006	01032806-022	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-007	01032806-023	Beryllium			< 0.1 µg	TR1	U	7440-41-7



April 2, 2001

Laboratory Report ID: 01032806  
Laboratory Name: JMTC IH Analytical Laboratory  
Laboratory Code: JMANS  
Subcontract Number: 800188SX6  
RIN: 01D0632  
Requestor: Andre Gonzalez  
P.O./Charge Code: EDD30120

## QUICK RESULTS SUMMARY

Line Item Code: NR01A001  
Sample Matrix: WIPE  
Analytical Method: OSHA ID-125G

Reporting Limit: 0.1 µg  
Date Received: 03/28/01  
Date Analyzed: 03/30/01

Customer Number	Laboratory ID Number	Requested Analysis	CONCENTRATION			T	Q	Constituent ID
			Backup	Main	Total			
442W-03142001-05-008	01032806-024	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-009	01032806-025	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-010	01032806-026	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-011	01032806-027	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-012	01032806-028	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-013	01032806-029	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-014	01032806-030	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-015	01032806-031	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-016	01032806-032	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-017	01032806-033	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-018	01032806-034	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-019	01032806-035	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-020	01032806-036	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-021	01032806-037	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-022	01032806-038	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-023	01032806-039	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-024	01032806-040	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-025	01032806-041	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-026	01032806-042	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-027	01032806-043	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-028	01032806-044	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-029	01032806-045	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442W-03142001-05-030	01032806-046	Beryllium			< 0.1 µg	TR1	U	7440-41-7


**Johns Manville**

## COVER PAGE



Johns Manville Corporation  
10100 W. Ute Avenue (80127)  
P.O. Box G25005  
Littleton, CO 80162-5005  
303 978 2000

May 4, 2001

Rocky Flats Environmental Technology Site  
Ms Shelly Johnsen  
P.O. Box 464, Building 881  
Golden, CO 80402-0464

Laboratory Report ID: 01042710  
Laboratory Name: JMTC IH Analytical Laboratory  
Laboratory Code: JMANS  
Subcontract Number: 800188SX6  
RIN: 01D0752  
Requestor: Andre Gonzalez  
P.O./Charge Code: BEC50021

Dear Ms. Johnsen:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request. The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and participates in the AIHA ELPAT program. If you have any questions, please call (303) 978-2584.

### Scope of Work:

Requested Analysis	Bottle Number(s)	Customer Number(s)	Laboratory ID Number	Line Item Code	Sample Matrix
Beryllium	01D0752-001.001	442L-04262001-05-001	01042710-001	NR01A001	WIPE
Beryllium	01D0752-002.001	442L-04262001-05-002	01042710-002	NR01A001	WIPE
Beryllium	01D0752-003.001	442L-04262001-05-003	01042710-003	NR01A001	WIPE
Beryllium	01D0752-004.001	442L-04262001-05-004	01042710-004	NR01A001	WIPE
Beryllium	01D0752-005.001	442L-04262001-05-005	01042710-005	NR01A001	WIPE

**Comments:** No problem were encountered with sample receiving and sample analysis.

I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

  
\_\_\_\_\_  
Scott A. Steiner  
Industrial Hygiene Project Manager

5/4/01  
\_\_\_\_\_  
Date

May 4, 2001

Laboratory Report ID: 01042710  
Laboratory Name: JMTC IH Analytical Laboratory  
Laboratory Code: JMANS  
Subcontract Number: 800183SX6  
RIN: 01D0732  
Requestor: Andre Gonzalez  
P.O./Charge Code: EEC50021

**QUICK RESULTS SUMMARY**

Line Item Code: NR01A001  
Sample Matrix: WIPE  
Analytical Method: OSHA ID-125G

Reporting Limit: 0.1 µg  
Date Received: 04/27/01  
Date Analyzed: 05/03/01

Customer Number	Laboratory ID Number	Requested Analysis	CONCENTRATION			T	Q	Constituent ID
			Backup	Main	Total			
442L-04262001-05-001	01042710-001	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-04262001-05-002	01042710-002	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-04262001-05-003	01042710-003	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-04262001-05-004	01042710-004	Beryllium			< 0.1 µg	TR1	U	7440-41-7
442L-04262001-05-005	01042710-005	Beryllium			< 0.1 µg	TR1	U	7440-41-7

Commodore Advanced Sciences, Inc.				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C.# 01D0752#001	
REFETS								Page 1 of 1	
Sample ID: 01D0752		Contact/Requester: JOHNSON, SHELLY		Telephone No. 6401		Purchase Order/Change Code: EED60121			
Project Title: 442L BE SWEARS		Logbook No. N/A		Temp. N/A		B# of Lading/Air Bill No. 4531-2127			
To (Lab): Johns Manville		Method of Shipment: FEDERAL EXPRESS		PRE: 01D0752-002		SPECIAL INSTRUCTIONS: Held Time			
Freeze/cool		Related CDC (if any)		SCREENING REQUIRED <input type="checkbox"/>					
<p><b>POSITIVE SAMPLE HAZARDS/REMARKS</b></p> <p>Are acid preserved samples DOT hazardous per 49 CFR Part 136.3 Table 1? YES or NO</p> <p>Are other known hazards on list below present? YES or NO</p> <p>** ** *</p>									
Bottle No.	Customer Number	Matrix	Date	Time	Location	Container (Verify Adequacy)	Sample Analysis	Preservative; Packaging	
01D0752-001.001	442L-04262001-05-001	FILTER	04/26/2001	7:00 AM	442L	1-FILTER / N/A	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A	
01D0752-002.001	442L-04262001-06-002	FILTER	04/26/2001	7:00 AM	442L	1-FILTER / N/A	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A	
01D0752-003.001	442L-04262001-06-003	FILTER	04/26/2001	7:00 AM	442L	1-FILTER / N/A	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A	
01D0752-004.001	442L-04262001-05-004	FILTER	04/26/2001	7:00 AM	442L	1-FILTER / N/A	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A	
01D0752-005.001	442L-04262001-05-005	FILTER	04/26/2001	7:00 AM	442L	1-FILTER / N/A	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A	
<p>06 4-26-01</p>									
Relinquished By: <i>Chapman</i>	Date/Time: 4-26-01 1500	Received By: <i>PEDER</i>	Date/Time: 4-26-01 10:30	Relinquished By: <i>Good-ey</i>	Date/Time: 4-27-01	Received By: <i>P. Vlatu</i>	Date/Time: 4-27-01 10:30		
Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:		
Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:		
Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:		
FINAL SAMPLE DISPOSITION				Disposed By: _____ Date/Time: _____					

# Industrial Hygiene Information System

## Surface Sample Report

IHSR\_SURFACE\_SAMPLE

Date: 05/09/2001

Page: 1 of 1

RIN: 01D0752

Sample Number/Type:	442L-04262001-05-001	WIPE	Hygienist:	ANDRE GONZALEZ
Location Info:	ROOM 101, SOUTHEAST CORNER, TOP OF LIGHT FIXTURE			
Room No:	N/A			
Analyte:	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration:	< 0.1000 _ UG/100CM2			
Sample Number/Type:	442L-04262001-05-002	WIPE	Hygienist:	ANDRE GONZALEZ
Location Info:	ROOM 101, SOUTHWEST CORNER, TOP OF LIGHT FIXTURE			
Room No:	N/A			
Analyte:	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration:	< 0.1000 _ UG/100CM2			
Sample Number/Type:	442L-04262001-05-003	WIPE	Hygienist:	ANDRE GONZALEZ
Location Info:	ROOM 101, WEST END, TOP OF LIGHT FIXTURE			
Room No:	N/A			
Analyte:	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration:	< 0.1000 _ UG/100CM2			
Sample Number/Type:	442L-04262001-05-004	WIPE	Hygienist:	ANDRE GONZALEZ
Location Info:	ROOM 101, NORHTWEST CORNER, TOP OF LIGHT FIXTURE			
Room No:	N/A			
Analyte:	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration:	< 0.1000 _ UG/100CM2			
Sample Number/Type:	442L-04262001-05-005	WIPE	Hygienist:	ANDRE GONZALEZ
Location Info:	ROOM 101, NORTHEAST CORNER, TOP OF LIGHT FIXTURE			
Room No:	N/A			
Analyte:	BERYLLIUM AND BE COMPOUNDS (AS BE)			
Concentration:	< 0.1000 _ UG/100CM2			

DOES NOT CONTAIN <sup>995-55-56</sup>  
OFFICIAL USE ONLY INFORMATION

Name/Org John T. H. / PRC Date 10/5/08

Contains information which may be exempt from public release under the Freedom of Information Act (5 USC 552), exemption number(s) 2. b. 7. is required.

Directed by: J.A. Neshkin DOE M4713-1

RFETS		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST										C.O.C.# 01D0752#1	
Industrial Hygiene												Page: 1 of 1	
RIN 01D0752		Contact/Requestor ANDRE GONZALEZ				Telephone No. 3039666727				MSIN FAX			
Bottle No.	Customer Number	Matrix	Date	Time	Location	No/Type Container	Sample Analysis				Preservative Packing		
	442L-04262001-05-001				442L	1-FILTER N/A	BERYLLIUM AND BE COMPOUNDS (AS BE)				N/A None		
	442L-04262001-05-002				442L	1-FILTER N/A	BERYLLIUM AND BE COMPOUNDS (AS BE)				N/A None		
	442L-04262001-05-003				442L	1-FILTER N/A	BERYLLIUM AND BE COMPOUNDS (AS BE)				N/A None		
	442L-04262001-05-004				442L	1-FILTER N/A	BERYLLIUM AND BE COMPOUNDS (AS BE)				N/A None		
	442L-04262001-05-005				442L	1-FILTER N/A	BERYLLIUM AND BE COMPOUNDS (AS BE)				N/A None		

*4c / Fed X*  
*4/26/01*  
*Rootline*  
*Turnaround*

Are acid preserved samples DOT Hazardous per 40 CFR Part 136.3 Table II? YES or **NO**  
Are other known hazardous substances present? YES or **NO**  
*4/26/01*

*unable to verify contents of Rin # 01D0752*  
*03 4-26-01*

Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
<i>Andre Gonzalez</i>	<i>4/26/01 13:21</i>	<i>OB Brown</i>	<i>4-26-01 13:21</i>				
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
FINAL SAMPLE DISPOSITION				Disposal method (e.g., Return to customer, per lab procedure, used in process)			
				Disposed By: Date/Time			

BE

ASBESTOS BULK SAMPLING FORM

CLIENT NAME: \_\_\_\_\_ LOCATION: \_\_\_\_\_

SAMPLE DATE: \_\_\_\_\_ SAMPLED BY: \_\_\_\_\_ PROJECT NUMBER: \_\_\_\_\_

Sample Number	Sample Type	Sample Description	Sample Location
4424-03282001-05-001	6 ft	Pillar A, Section 38 - vert.	South wall, Room 105
002	6 ft	on top of blue panel - horiz.	East wall, Room 105
003	6 ft	1st pillar from east end - <del>vert.</del> vert.	North wall, Room 105
004	6 ft	2nd pillar next to bulletin board - <del>vert.</del> vert.	West wall, Room 105
4424-03282001-05-001	6 ft.	top of fit west wall	Room 103
002	4 ft	window sill at east end	Room 101
003	4 ft	window sill at northwest corner	Room 101
004	4 ft	window sill at west north corner	Room 101
4424-04242001-05-001	78 Ft	on top of light fixture	Room 101
-002	78 Ft	"	
-003	78 Ft	"	
-004	78 Ft	:	
-005	78 Ft.	"	

FOOTHILLS ENVIRONMENTAL, INC.  
Industrial Hygiene, Safety, & Environmental Services

2801 Youngfield St., Ste. 300  
Golden, CO 80401  
Phone: (303) 275-3470  
Fax: (720) 489-2832

BE

ASBESTOS BULK SAMPLING FORM

CLIENT NAME: \_\_\_\_\_ LOCATION: \_\_\_\_\_

SAMPLED BY: _____			PROJECT NUMBER: _____	
Sample Number	Sample Type	Sample Description	Sample Location	
4426-05282001-05-001	6 ft	Pillar A, Section 38 - vert.	South wall, Room 105	
002	6 ft	on top of blue panel - horiz.	East wall, Room 105	
003	6 ft	1st pillar from east end - <del>vert.</del> vert.	North wall, Room 105	
004	6 ft	2nd pillar next to bulletin board - <del>vert.</del> vert.	West wall, Room 105	
4426-05282001-05-001	6 ft	top of fit west wall	Room 103	
002	4 ft	window sill at east end	Room 101	
003	4 ft	window sill at northwest corner	Room 101	
004	4 ft	window sill at southwest corner	Room 101	
4426-05282001-05-001	78 ft	on top of light fixture	Room 101	
002	78 ft	"		
003	78 ft	"		
004	78 ft	"		
005	78 ft	"		





**Johns Manville**

**Johns Manville Corporation**  
10100 W. Ute Avenue (80127)  
P.O. Box 625005  
Littleton, CO 80162-5005  
303 978 2000

## COVER PAGE

April 2, 2001

Rocky Flats Environmental Technology Site  
Ms. Shelly Johnsen  
P.O. Box 464, Building 881  
Golden, CO 80402-0464

**Laboratory Report ID:** 01032806  
**Laboratory Name:** JMTC IH Analytical Laboratory  
**Laboratory Code:** JMANS  
**Subcontract Number:** 800188SX6  
**RIN:** 01D0632  
**Requestor:** Andre Gonzalez  
**P.O./Charge Code:** EDD30120

Dear Ms. Johnsen:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request. The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and participates in the AIHA ELPAT program. If you have any questions, please call (303) 978-2584.

### Scope of Work:

Requested Analysis	Bottle Number(s)	Customer Number(s)	Laboratory ID Number	Line Item Code	Sample Matrix
Beryllium	01D0632-001.001	442L-03142001-05-001	01032806-001	NR01A001	WIPE
Beryllium	01D0632-002.001	442L-03142001-05-002	01032806-002	NR01A001	WIPE
Beryllium	01D0632-003.001	442L-03142001-05-003	01032806-003	NR01A001	WIPE
Beryllium	01D0632-004.001	442L-03142001-05-004	01032806-004	NR01A001	WIPE
Beryllium	01D0632-005.001	442L-03142001-05-005	01032806-005	NR01A001	WIPE
Beryllium	01D0632-006.001	442L-03142001-05-006	01032806-006	NR01A001	WIPE
Beryllium	01D0632-007.001	442L-03142001-05-007	01032806-007	NR01A001	WIPE
Beryllium	01D0632-008.001	442L-03142001-05-008	01032806-008	NR01A001	WIPE
Beryllium	01D0632-009.001	442L-03142001-05-009	01032806-009	NR01A001	WIPE
Beryllium	01D0632-010.001	442L-03142001-05-010	01032806-010	NR01A001	WIPE
Beryllium	01D0632-011.001	442L-03142001-05-011	01032806-011	NR01A001	WIPE
Beryllium	01D0632-012.001	442L-03142001-05-012	01032806-012	NR01A001	WIPE
Beryllium	01D0632-013.001	442L-03142001-05-013	01032806-013	NR01A001	WIPE
Beryllium	01D0632-014.001	442L-03142001-05-014	01032806-014	NR01A001	WIPE
Beryllium	01D0632-015.001	442L-03142001-05-015	01032806-015	NR01A001	WIPE
Beryllium	01D0632-016.001	442L-03142001-05-016	01032806-016	NR01A001	WIPE
Beryllium	01D0632-017.001	442W-03142001-05-001	01032806-017	NR01A001	WIPE
Beryllium	01D0632-018.001	442W-03142001-05-002	01032806-018	NR01A001	WIPE
Beryllium	01D0632-019.001	442W-03142001-05-003	01032806-019	NR01A001	WIPE
Beryllium	01D0632-020.001	442W-03142001-05-004	01032806-020	NR01A001	WIPE
Beryllium	01D0632-021.001	442W-03142001-05-005	01032806-021	NR01A001	WIPE
Beryllium	01D0632-022.001	442W-03142001-05-006	01032806-022	NR01A001	WIPE
Beryllium	01D0632-023.001	442W-03142001-05-007	01032806-023	NR01A001	WIPE
Beryllium	01D0632-024.001	442W-03142001-05-008	01032806-024	NR01A001	WIPE
Beryllium	01D0632-025.001	442W-03142001-05-009	01032806-025	NR01A001	WIPE
Beryllium	01D0632-026.001	442W-03142001-05-010	01032806-026	NR01A001	WIPE
Beryllium	01D0632-027.001	442W-03142001-05-011	01032806-027	NR01A001	WIPE

April 2, 2001

Laboratory Report ID: 01032806  
Laboratory Name: JMTC IH Analytical Laboratory  
Laboratory Code: JMANS  
Subcontract Number: 800188SX6  
RIN: 01D0632  
Requestor: Andre Gonzalez  
P.O./Charge Code: EDD30120

**Scope of Work:** (cont.)

Requested Analysis	Bottle Number(s)	Customer Number(s)	Laboratory ID Number	Line Item Code	Sample Matrix
Beryllium	01D0632-028.001	442W-03142001-05-012	01032806-028	NR01A001	WIPE
Beryllium	01D0632-029.001	442W-03142001-05-013	01032806-029	NR01A001	WIPE
Beryllium	01D0632-030.001	442W-03142001-05-014	01032806-030	NR01A001	WIPE
Beryllium	01D0632-031.001	442W-03142001-05-015	01032806-031	NR01A001	WIPE
Beryllium	01D0632-032.001	442W-03142001-05-016	01032806-032	NR01A001	WIPE
Beryllium	01D0632-033.001	442W-03142001-05-017	01032806-033	NR01A001	WIPE
Beryllium	01D0632-034.001	442W-03142001-05-018	01032806-034	NR01A001	WIPE
Beryllium	01D0632-035.001	442W-03142001-05-019	01032806-035	NR01A001	WIPE
Beryllium	01D0632-036.001	442W-03142001-05-020	01032806-036	NR01A001	WIPE
Beryllium	01D0632-037.001	442W-03142001-05-021	01032806-037	NR01A001	WIPE
Beryllium	01D0632-038.001	442W-03142001-05-022	01032806-038	NR01A001	WIPE
Beryllium	01D0632-039.001	442W-03142001-05-023	01032806-039	NR01A001	WIPE
Beryllium	01D0632-040.001	442W-03142001-05-024	01032806-040	NR01A001	WIPE
Beryllium	01D0632-041.001	442W-03142001-05-025	01032806-041	NR01A001	WIPE
Beryllium	01D0632-042.001	442W-03142001-05-026	01032806-042	NR01A001	WIPE
Beryllium	01D0632-043.001	442W-03142001-05-027	01032806-043	NR01A001	WIPE
Beryllium	01D0632-044.001	442W-03142001-05-028	01032806-044	NR01A001	WIPE
Beryllium	01D0632-045.001	442W-03142001-05-029	01032806-045	NR01A001	WIPE
Beryllium	01D0632-046.001	442W-03142001-05-030	01032806-046	NR01A001	WIPE
Beryllium	01D0632-047.001	442W-03142001-05-031	01032806-047	NR01A001	WIPE
Beryllium	01D0632-048.001	442W-03142001-05-032	01032806-048	NR01A001	WIPE
Beryllium	01D0632-049.001	442W-03142001-05-033	01032806-049	NR01A001	WIPE
Beryllium	01D0632-050.001	442W-03142001-05-034	01032806-050	NR01A001	WIPE
Beryllium	01D0632-051.001	442W-03142001-05-035	01032806-051	NR01A001	WIPE
Beryllium	01D0632-052.001	442W-03142001-05-036	01032806-052	NR01A001	WIPE
Beryllium	01D0632-053.001	442W-03142001-05-037	01032806-053	NR01A001	WIPE
Beryllium	01D0632-054.001	442W-03142001-05-038	01032806-054	NR01A001	WIPE
Beryllium	01D0632-055.001	442W-03142001-05-039	01032806-055	NR01A001	WIPE

**Comments:** No problem were encountered with sample receiving and sample analysis

I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

\_\_\_\_\_  
Scott A. Steiner  
Industrial Hygiene Project Manager

\_\_\_\_\_  
Date

90



## Rocky Flats Environmental Technology Site

### CHEMICAL CHARACTERIZATION PLAN (PACKAGE)

#### Group 8 CLOSURE PROJECT (Buildings T886B and T886C)

REVISION 0

June 25, 2001

Prepared by: David Babbs Date: 6/25/01  
David Babbs, Industrial Hygiene

Prepared by: Kimberly Myers Date: 6/25/01  
Kimberly Myers, Environmental Compliance

Reviewed by: Steve Luker Date: 6/26/01  
Steve Luker, Quality Assurance

Reviewed by: Duane Parsons Date: 6/26/01  
Duane Parsons, Characterization Coordinator

Approved by: Kent Dorr Date: 6/26/01  
Kent Dorr, KH Closure Project Manager

## CHEMICAL CHARACTERIZATION PLAN (PACKAGE)

**BUILDING(s):** Group 8 (Buildings T886B and T886C)

**Notes:**

- \* This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.
- \* PDSP Data Quality Objectives were used to develop this characterization package.

**Instructions:**

1. Verify characterization activities are on the Plan-of-the-Day (POD).
2. Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual.
3. Verify personnel have appropriate training for the applicable tasks they will be performing.
4. Comply with RWP requirements, if applicable.
5. Comply with JHA and facility PPE requirements, as applicable.
6. Inform the Facility Manager, or designee prior to starting characterization activities.
7. Follow applicable characterization and sampling procedures.
8. Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs.
9. Prior to any intrusive or invasive survey or sampling activities, contact IH and Radiological Operations to determine requirements and/or restrictions during sampling activities.
10. Coordination with the Environmental Restoration Program organization will be required to further characterize underneath facility foundations and slabs prior to removal.
11. Collect and maintain all characterization paperwork in the Project File(s), and all electronic data in the appropriate D&D RISS subdirectory.

<b>ASBESTOS</b>		
<b>Sample Location</b>	<b>Estimated Number of Samples</b>	<b>Sample location and justification/rational</b>
T886B	10	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed. Suspect materials such as sheet vinyl flooring, backing, and adhesive, acoustical ceiling tiles, and baseboards with adhesive will be sampled for asbestos.
T886C	5	Asbestos inspection has not been performed. As a result, a comprehensive invasive inspection must be performed. Suspect materials such as sheet vinyl flooring, backing, and adhesive, acoustical ceiling tiles, and baseboards with adhesive will be sampled for asbestos.
<b>Total Samples:</b>	15	The exact sample numbers and locations cannot be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.

<b>BERYLLIUM</b>		
<b>Sample Location</b>	<b>Number of Samples (smears)</b>	<b>Sample location and justification/rational</b>
T886B	5 – Biased	There is no documented supporting data or process history that proves beryllium was not used or stored in this building. Therefore, five biased samples will be obtained.
T886C	5 – Biased	There is no documented supporting data or process history that proves beryllium was not used or stored in this building. Therefore, five biased samples will be obtained.
<b>Total Samples:</b>	10	Samples will be obtained at locations specified on sample map(s) in accordance with PRO-536-BCPR, Beryllium Characterization Procedure. Biased sample locations will correspond with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

<b>LEAD</b>		
<b>Sample Location</b>	<b>Number of Samples</b>	<b>Sample location and justification/rational</b>
T886B and T886C	0	Lead sampling is not required in the Group 8. The only potential for a lead hazard would be in the paint. All paint will remain a part of the infrastructure during demolition and/or disposal, and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.
<b>Total Samples:</b>	0	

RCRA/CERCLA CONSTITUENTS		
Sample Location	Number of Samples	Sample location and justification/rational
T886B	0	Based on the Area Historical Site Assessment Report, Interview Checklists, and facility walkdowns, no hazardous activities resulting in a release of RCRA or CERCLA constituents occurred in these buildings, therefore sampling for RCRA/CERCLA constituents is not required. Note: These buildings contain components that may need to be managed as Regulated Waste during D&D activities including mercury thermostats, fluorescent light bulbs, circuit boards, and lead acid batteries. Care will need to be taken to ensure these wastes are managed properly.
T886C	0	Based on the Area Historical Site Assessment Report, Interview Checklists, and facility walkdowns, no hazardous activities resulting in a release of RCRA or CERCLA constituents occurred in these buildings, therefore sampling for RCRA/CERCLA constituents is not required. Note: These buildings contain components that may need to be managed as Regulated Waste during D&D activities including mercury thermostats, fluorescent light bulbs, circuit boards, and lead acid batteries. Care will need to be taken to ensure these wastes are managed properly.
<b>Total Samples:</b>	0	

PCBs*		
Sample Location	Number of Samples	Sample location and justification/rational
T886B and T886C	0	These two buildings were installed in 1991. The Area Historical Site Assessment Report, Interview Checklists, and facility walkdowns of these trailers indicate PCB contamination in the structural debris is not probable. Therefore, no sampling is required. These buildings will be disposed of as sanitary waste or sold for re-use.
<b>Total Samples:</b>	0	Note: These buildings do contain materials that may need to be managed as Regulated Waste during D&D activities, such as light ballasts. Care will need to be taken to ensure these wastes are managed properly.

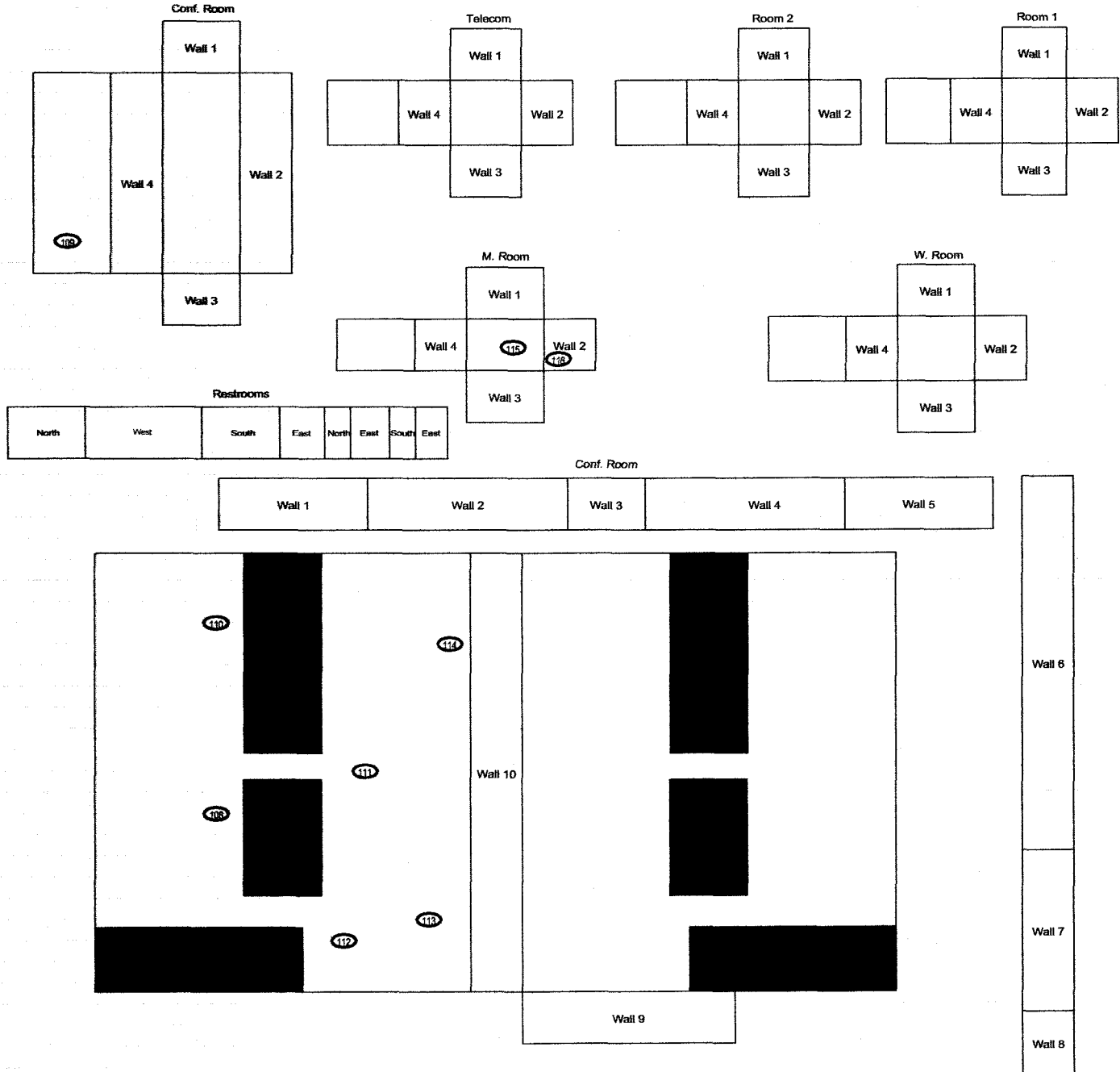
- \* PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.

# PRE-DEMOLITION SURVEY

Survey Area: A Survey Unit: GR8-A-001 Classification: 3  
 Building: T886B  
 Survey Unit Description: Interior & Exterior of T886B  
 Total Area: 1928 sq. m. Total Floor Area: 366 sq. m.

## T886B Interior

T886B-06072001-315-108 Thru 116



<b>SURVEY MAP LEGEND</b> (X) Asbestos Sample Location (A) Beryllium Sample Location (M) Lead Sample Location (R) RCRA/CERCLA Sample Location (P) PCB Sample Location (O) Open/Inaccessible Area (A) Area in Another Survey Unit	Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.	0 30 FEET 0 10 METERS 1 inch = 24 feet 1 grid sq. = 1 sq. m.	U.S. Department of Energy Rocky Flats Environmental Technology Site Prepared by: GHS Dept. 303-060-770 Prepared for: <b>DynCorp</b> THE ART OF TECHNOLOGY MAP ID: T2001/01-0555 May 9, 2001
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GR8-A-001

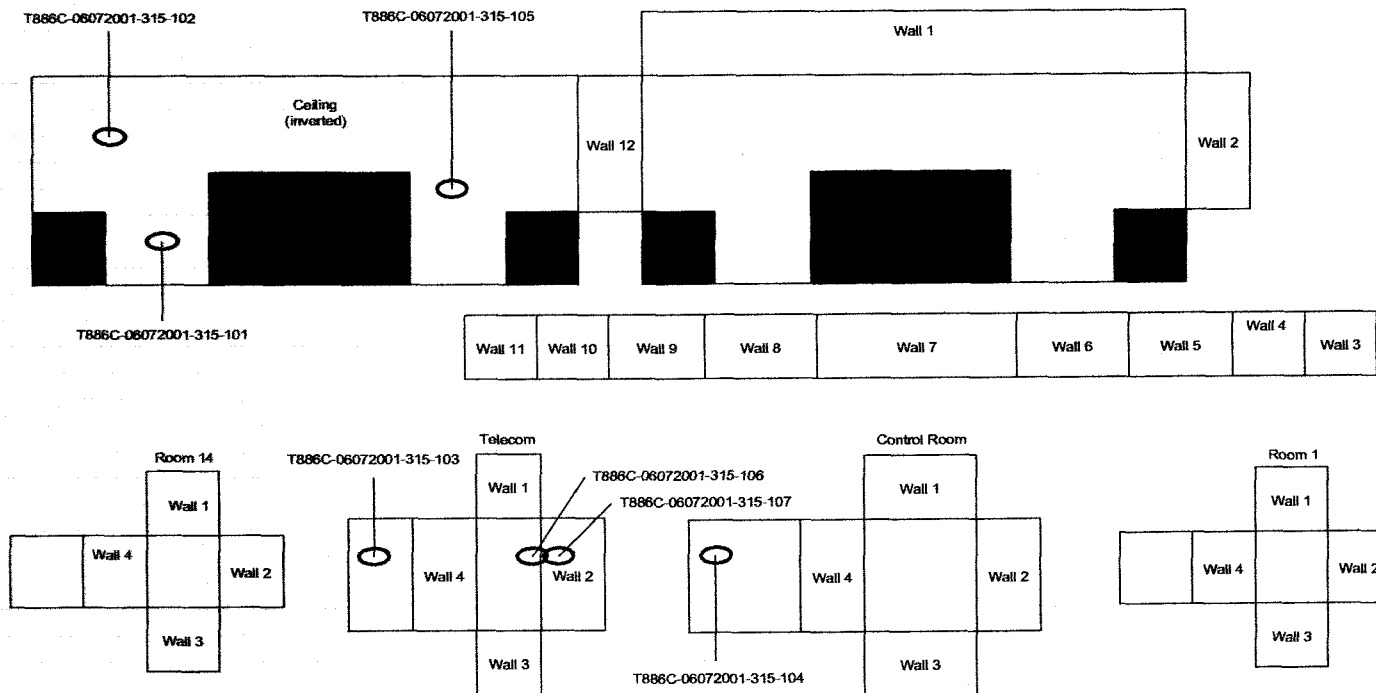
PAGE 1 OF 21

7/30/01

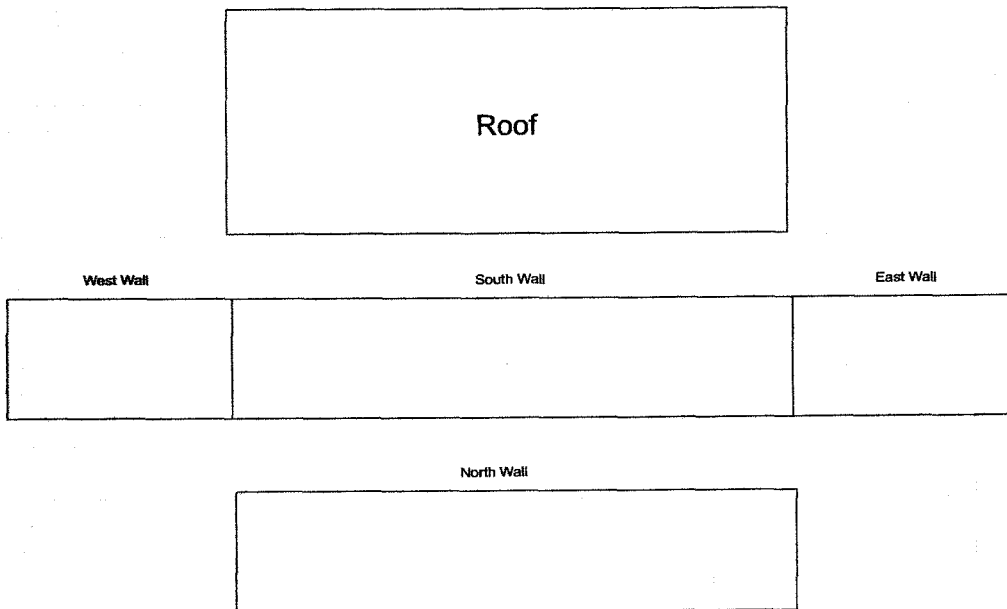
# **PRE-DEMOLITION SURVEY**

Survey Area: B      Survey Unit: GR8-B-002      Classification: 3  
 Building: T886C  
 Survey Unit Description: Interior & Exterior of T886C  
 Total Area: 1072 sq. m.      Total Floor Area: 164 sq. m.

## **T886C Interior**



## **T886C Exterior**



<p><b>SURVEY MAP LEGEND</b></p> <ul style="list-style-type: none"> <li>Asbestos Sample Location</li> <li>Beryllium Sample Location</li> <li>Lead Sample Location</li> <li>RCRA/CERCLA Sample Location</li> <li>PCB Sample Location</li> </ul>	<p>Neither the United States Government nor Kaiser III Co., nor DynCorp I&amp;ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.</p> <p>Open/Inaccessible Area</p> <p>Area in Another Survey Unit</p>	<p>N</p> <p>↑</p>	<p>0 30</p> <p>FEET</p> <p>0 10</p> <p>METERS</p> <p>1 inch = 24 feet 1 grid sq. = 1 sq. m.</p>	<p>U.S. Department of Energy              Rocky Flats Environmental Technology Site</p> <p>Prepared by: GIS Dept. 363-966-770 Prepared for:</p> <p><b>DynCorp</b>              THE ART OF TECHNOLOGY</p> <p>MAP ID: 1/2001/01-0555 May 8, 2001</p>
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## RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NYLAP Accredited Laboratory # 181896  
DOH Licensed Laboratory # 30-0196

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 77917-1  
Client: Kaiser-Hill Analytical Services Division  
Client Project Number / P.O.: 01D0947/TEEB60121  
Client Project Description: T886 B&C BULK ASBESTOS  
Date Samples Received: June 12, 2001  
Analysis Type: PLM Short Report, Bulk  
Turnaround: 3-5 Day

Analytic: LW

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Mineral			Non-Fibrous Components (%)	
					Mineral	Visual Estimate (%)	Asbestos Fibers Components (%)	Non-Fibrous Components (%)	Non-Fibrous Components (%)
T886C06072001315-101	EM 548552	A	White /tan ceiling tile	100		ND	60	40	40
T886C06072001315-102	EM 548553	A	White /tan ceiling tile	100		ND	60	40	40
T886C06072001315-103	EM 548554	A	White /tan ceiling tile	100		ND	60	40	40
T886C06072001315-104	EM 548555	A	White /tan ceiling tile	100		ND	60	40	40
T886C06072001315-105	EM 548556	A	White /tan ceiling tile	100		ND	60	40	40
T886C06072001315-106	EM 548557	A	Tan /white linoleum	100		ND	20	80	80
T886C06072001315-107	EM 548558	A B	Yellow mastic Tan cove base	3 97		ND	0	100	100
T886C06072001315-108	EM 548559	A	White /tan ceiling tile	100		ND	60	40	40
T886C06072001315-109	EM 548560	A	White /tan ceiling tile	100		ND	60	40	40
T886C06072001315-110	EM 548561	A	White /tan ceiling tile	100		ND	60	40	40

ND = None Detected  
TR = Trace, < 1% Visual Estimate

Trem-Ast = Tremolite-Actinolite

Data QA

## RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP Accredited Laboratory # 101896  
TDR Licensed Laboratory # 3C-0136

TABLE 1 PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 71917-1

Client:

Kaiser-Hill Analytical Services Division

01D0942/REED60122

Client Project Number / P.O.:

T886 B&amp;C BULK ASBESTOS

Client Project Description:

Date Samples Received: June 12, 2001

Analysis Type: PLM Short Report, Bulk

Turnaround: 3-5 Day

Analyst: LWP

Client Sample Number	Lab ID Number	Physical Description					Sub Part (%)	Mineral	Verbal Estimate (%)	Asbestos Fibers Components (%)	Non-Fibrous Components (%)
		L	A	Y	E	R					
T886C06072001315-111	EM 548562	A					100		ND	60	40
T886C06072001315-112	EM 548563	A					100		ND	60	40
T886C06072001315-113	EM 548564	A					100		ND	60	40
T886C06072001315-114	EM 548565	A					100		ND	60	40
T886C06072001315-115	EM 548566	A					3	Yellow mastic	ND	0	100
		B					97	Tan core base	ND	0	100
T886C06072001315-116	EM 548567	A					100	Tan /white linoleum w/tan mastic	ND	15	85

ND = None Detected

TR = Trace, &lt; 1% Verbal Estimate

Trem-Ast = Tremolite-Actinolite

Data QA

# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

RFP F 3791.32 (7/95)  
Formerly EF-47530

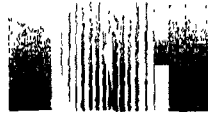
RIN# 01D0942

Name of Originator: <u>DAVID BABBS</u>		Title: <u>IHS</u>	Bldg/Ext: <u>T117A/4717</u>		Date: <u>6/8/01</u>	Page <u>1 of 1</u>
SAMPLE NUMBER Bldg/Y/M/D/P#/#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A Area (B) Bulk	REMARKS
T886C-06072001-315-101	Asbestos	NA	NA	NA	B	IH02-B004
T886C-06072001-315-102						
T886C-06072001-315-103						
T886C-06072001-315-104						
T886C-06072001-315-105						
T886C-06072001-315-106						
T886C-06072001-315-107						
T886B-06072001-315-108						
T886B-06072001-315-109						
T886B-06072001-315-110						
T886B-06072001-315-111						
T886B-06072001-315-112						
T886B-06072001-315-113						
T886B-06072001-315-114						
T886B-06072001-315-115						
T886B-06072001-315-116						
<div> <div> Relinquished by <u>DAVID BABBS</u> </div> <div> Received by <u>[Signature]</u> </div> <div> Time/Date <u>1584 6/11/01</u> </div> </div>						
<div> Relinquished by </div> <div> Received by </div> <div> Time/Date </div>						
<div> Relinquished by </div> <div> Received by </div> <div> Time/Date </div>						
<div> Relinquished by </div> <div> Received by </div> <div> Time/Date </div>						
<div> Report and Billing Instruction </div> <div> Verbal To: <u>D. BABBS</u> </div> <div> Fax To: <u>6678</u> </div> <div> Report To: <u>KH</u> </div> <div> Bill To: <u>KH</u> </div> <div> P.O.#/Release: <u>EED60122</u> </div> <div> Lab: <u>Reverie</u> </div>						
<div> Seal# (Release #) </div> <div> Condition of Seal: </div> <div> <input type="checkbox"/> Broken </div> <div> <input type="checkbox"/> Unbroken </div> <div> Signature: </div> <div> Comments: </div>						

White - Return to Originator Yellow - Lab Copy Green - Sample Custodian Blue - Originator

Commodore Advanced Sciences, Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C.# 01D0942#001	
RFETS		Page 1 of 2					
Supplier(s) DAVID BABBS	Contract/Requirer (Signature)	JOHNSON, SHELLEY		Telephone No. 6401			
RUN 01D0942	Sampling Origin T886 C/T886 B			Purchase Order/Charge Code EED00122			
Project Title T886 B & C BULK ASBESTOS	Logbook No. N/A			Ice Chest No. N/A		Temp.	
To (Lab): Reservoirs Environmental	Method of Shipment HAND DELIVER			Bill of Lading/Air Bill No. N/A			
Protocol	Related COC (if any)			PHE			
POSSIBLE SAMPLE HAZARDS/REMARKS		SCREENING REQUIRED		*SEE BELOW*			
Are acid preserved samples DOT hazardous per 49 CFR 173.136.3 Table 1? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		SPECIAL INSTRUCTIONS		Held Time			
Are other known hazardous substances present? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				*010612-09116-003 & 010613-00116-004*		PORT COUNT ALL SAMPLES FROM TRACE TO < OR = TO 75	
Sample No.	Customer Number	Mark	Date	Time	Location	Container (size/type/quantity)	Sample Analysis
01D0942-001.001	T886C060720013 15-101	IH	06/07/2001	7:00 AM	T886 C	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]
01D0942-002.001	T886C060720013 15-102	IH	06/07/2001	7:00 AM	T886 C	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]
01D0942-003.001	T886C060720013 15-103	IH	06/07/2001	7:00 AM	T886 C	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]
01D0942-004.001	T886C060720013 15-104	IH	06/07/2001	7:00 AM	T886 C	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]
01D0942-005.001	T886C060720013 15-105	IH	06/07/2001	7:00 AM	T886 C	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]
01D0942-006.001	T886C060720013 15-106	IH	06/07/2001	7:00 AM	T886 C	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]
01D0942-007.001	T886C060720013 15-107	IH	06/07/2001	7:00 AM	T886 C	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
6/14/01 1300	6/14/01 1300	6/14/01 1300	6/14/01 1300	6/14/01 1300	6/14/01 1300	6/14/01 1300	6/14/01 1300
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., returned to customer, disposed of per lab procedure, used in analytical process)						Date/Time

Commodore Advanced Sciences, Inc.				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C.# 01D0942#001	
BUN 81D0942				Control/Inspector JOHNSON, SHELLY				Page 2 of 2	
Bottle No.	Customer Number	Matrix	Date	Time	Location	Container (size/type/quantity)	Sample Analysis	Preservative: Packing	
01D0942-008.001	T886B060720013 15-108	IH	06/07/2001	7:00 AM	T886 B	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]	N/A	
01D0942-009.001	T886B060720013 15-109	IH	06/07/2001	7:00 AM	T886 B	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]	None	
01D0942-010.001	T886B060720013 15-110	IH	06/07/2001	7:00 AM	T886 B	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]	N/A	
01D0942-011.001	T886B060720013 15-111	IH	06/07/2001	7:00 AM	T886 B	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]	None	
01D0942-012.001	T886B060720013 15-112	IH	06/07/2001	7:00 AM	T886 B	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]	N/A	
01D0942-013.001	T886B060720013 15-113	IH	06/07/2001	7:00 AM	T886 B	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]	None	
01D0942-014.001	T886B060720013 15-114	IH	06/07/2001	7:00 AM	T886 B	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]	N/A	
01D0942-015.001	T886B060720013 15-115	IH	06/07/2001	7:00 AM	T886 B	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]	None	
01D0942-016.001	T886B060720013 15-116	IH	06/07/2001	7:00 AM	T886 B	1-NA / N/A / 1	IH02B004 (offsiteAsbestos-bulk PLM N9002) [Routine]	N/A	
<i>see container</i>									
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time	Date/Time	
<i>John 6/14/01</i>		<i>John 6/14/01</i>		<i>John 6/14/01</i>		<i>John 6/14/01</i>			
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time	Date/Time	
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time	Date/Time	
Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time	Date/Time	
FINAL SAMPLE DISPOSITION									
Disposition Method (e.g., returned to customer, disposed of per lab procedures, used in analytical process)									
Disposed By									



KAISER-HILL  
COMPANY  
ANALYTICAL SERVICES DIVISION

**FAX COVER SHEET PRELIMINARY DATA REPORTS**

RIN NUMBER: 0100942

FROM: **SHELLY JOHNSEN**

PHONE: **(303) 966-6401**

FAX: **(303) 966-8345**

TO: DAVID BABBS

FAX: 6678

PHONE: \_\_\_\_\_

NUMBER OF PAGES, INCLUDING COVER SHEET: \_\_\_\_\_

Please contact \_\_\_\_\_ if the fax is not received in its entirety.  
(phone number)

If the accompanying data is stamped preliminary it is because the final data package has not been received and validated or verified. Until the data is validated or verified it must be considered preliminary. Final data is usually not received until 30 days after the laboratory has received the sample. Verification or validation is completed a short time following receipt of the final data package. You will be sent a copy of the verification or validation report, which you should review. If qualifiers have been attached to individual results they may affect the way that you use the data. If you have any question please contact your Analytical Services Project Lead, do not contact the laboratory directly.

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☐ Property ☐ Waste ☒ Sample

**RELEASE EVALUATION FORM**Page 1 of 2Release Evaluation No. 0106113-00116-004 EXTENDED: NO EXPIRES: N/A Charge No.: N/A**PART I****SENDER/CUSTODIAN****ACKNOWLEDGEMENT**

**Description of Property/Waste/Sample To Be Released/Transferred:** Nine (Qty. 9) asbestos bulk samples from T886B. Sample numbers are as follows: T886B-06072001-315-108, T886B-06072001-315-109, T886B-06072001-315-110, T886B-06072001-315-111, T886B-06072001-315-112, T886B-06072001-315-113, T886B-06072001-315-114, T886B-06072001-315-115, & T886B-06072001-315-116.

**Current Location:** T117A**Destination:** Reservoir Environmental Services, 1827 Grant St., Denver, CO 80203**New Recipient/Custodian:** Same as above

**History/Process Knowledge:** These samples came from an area that has no potential for radioactive contamination. The WISRIC and Historical Site Assessments for T886B were reviewed by the Characterization Radiological Engineer (Jay Britten, X3050) and determined to not be a radiological concern. The indicated facility has never been used or contained a CA/RBA. The samples are being sent for asbestos analysis.

- 1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate.
- 2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation.

Sender/Custodian: David Babbs *David Babbs* Emp. No: [REDACTED] Date: 6/11/01 Ext: 4717**PART II****RADIOLOGICAL ENGINEERING****SPECIFIC REQUIREMENTS AND/OR COMMENTS:**

*The samples specified above have been reviewed by Radiological Engineering and process knowledge indicates that there are no radiological concerns. The indicated areas have never been posted a CA/RBA. As a result, **NO RADIOLOGICAL SURVEYS ARE REQUIRED** prior to transfer to the receiving laboratory.*

**Custodian:** *Ensure only indicated samples are delivered to the new custodian for asbestos analysis.*

**Custodian:** *Retain a copy of all documents required by this release evaluation. The sender/custodian will be responsible for ensuring a copy of this release evaluation is available for auditing/due diligence purposes.*

**Radiological Engineer:** *Process release evaluation to indicate an unrestricted free-release. Sign all appropriate documentation required for the disposition of the affected items.*

Evaluated: Jay M. Britten / *Jay M. Britten* Emp. No: [REDACTED] Date: 6/11/01 Ext: 3050  
Radiological Engineer

**APPROVAL FOR TRANSFER/SHIPMENT**

Approved: Jay M. Britten / *Jay M. Britten* Emp. No: [REDACTED] Date: 6/11/01 Ext: 3050  
Radiological Engineer

**PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS**Release Evaluation #: 0106113-00116-004Page 2 of 2**Release Evaluation for Waste:**

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

**Release Evaluation for Property:**

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature. For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE. In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history.

**Release Evaluation for Samples:**

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

*"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."*

**Additional Documentation:**

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page \_\_\_ of \_\_\_, initials of Radiological Engineer signing approval for transfer/shipment and date.



# Rocky Flats Environmental Technology Site

10808 Hwy 93 Golden, CO 80403-8200

# Safety and Industrial Hygiene Chain of Custody Record and Analysis Request

[illegible]



Wakarusa

T886B

T886C

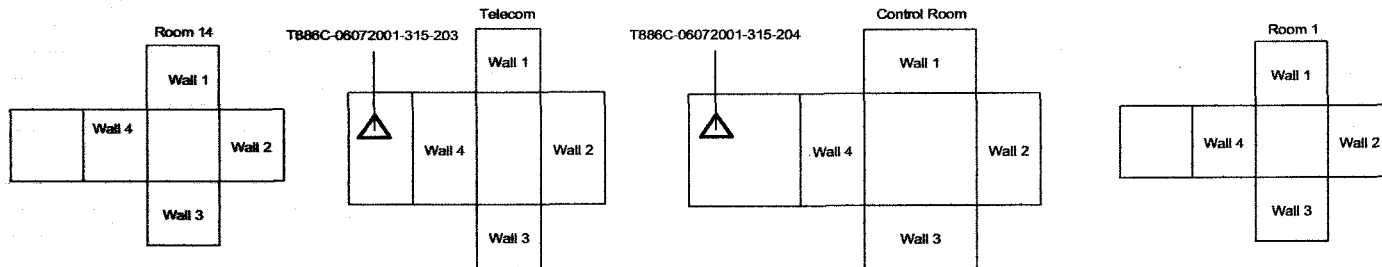
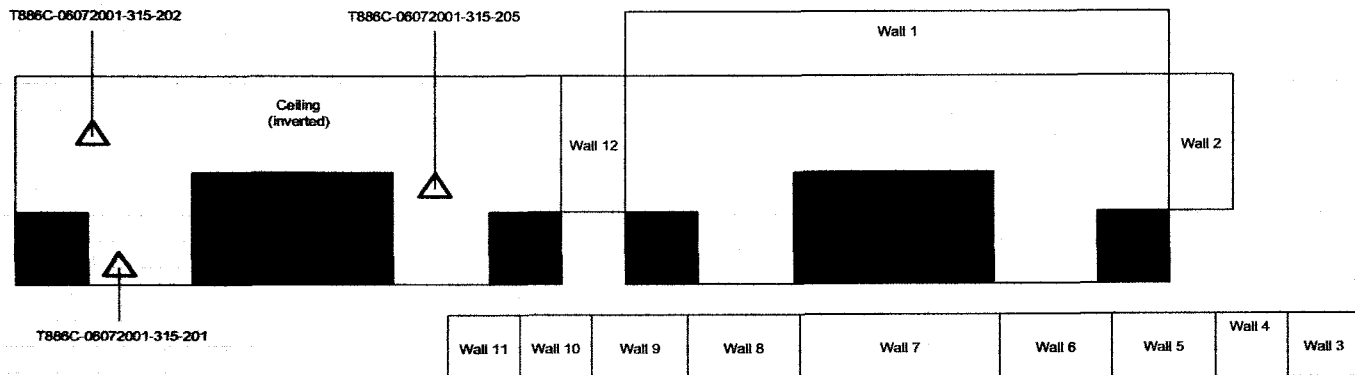
seeing the line, board.

6/1/01; 10:45 am

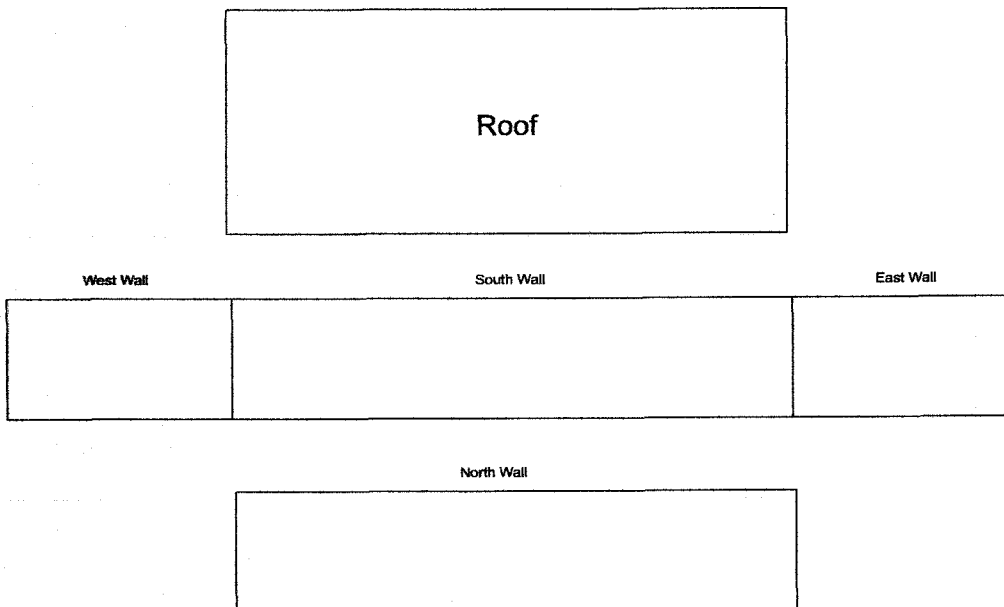
# **PRE-DEMOLITION SURVEY**

Survey Area: B      Survey Unit: GR8-B-002    Classification: 3  
 Building: T886C  
 Survey Unit Description: Interior & Exterior of T886C  
 Total Area: 1072 sq. m.      Total Floor Area: 164 sq. m.

## **T886C Interior**



## **T886C Exterior**



<b>SURVEY MAP LEGEND</b> (Triangle with A) Asbestos Sample Location (Triangle with B) Beryllium Sample Location (Triangle with L) Lead Sample Location (Diamond with RCRA/CERCLA) RCRA/CERCLA Sample Location (Triangle with PCB) PCB Sample Location	Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. ■ Open/Inaccessible Area □ Area in Another Survey Unit	N ↑	0      30 FEET 0      10 METERS 1 inch = 24 feet    1 grid sq. = 1 sq. m.	U.S. Department of Energy Rocky Flats Environmental Technology Site Prepared by: GHS Dept. 303-866-7707 Prepared for: <b>DynCorp</b> THE ART OF TECHNOLOGY MAP ID: T/2001/01-0555      May 9, 2001
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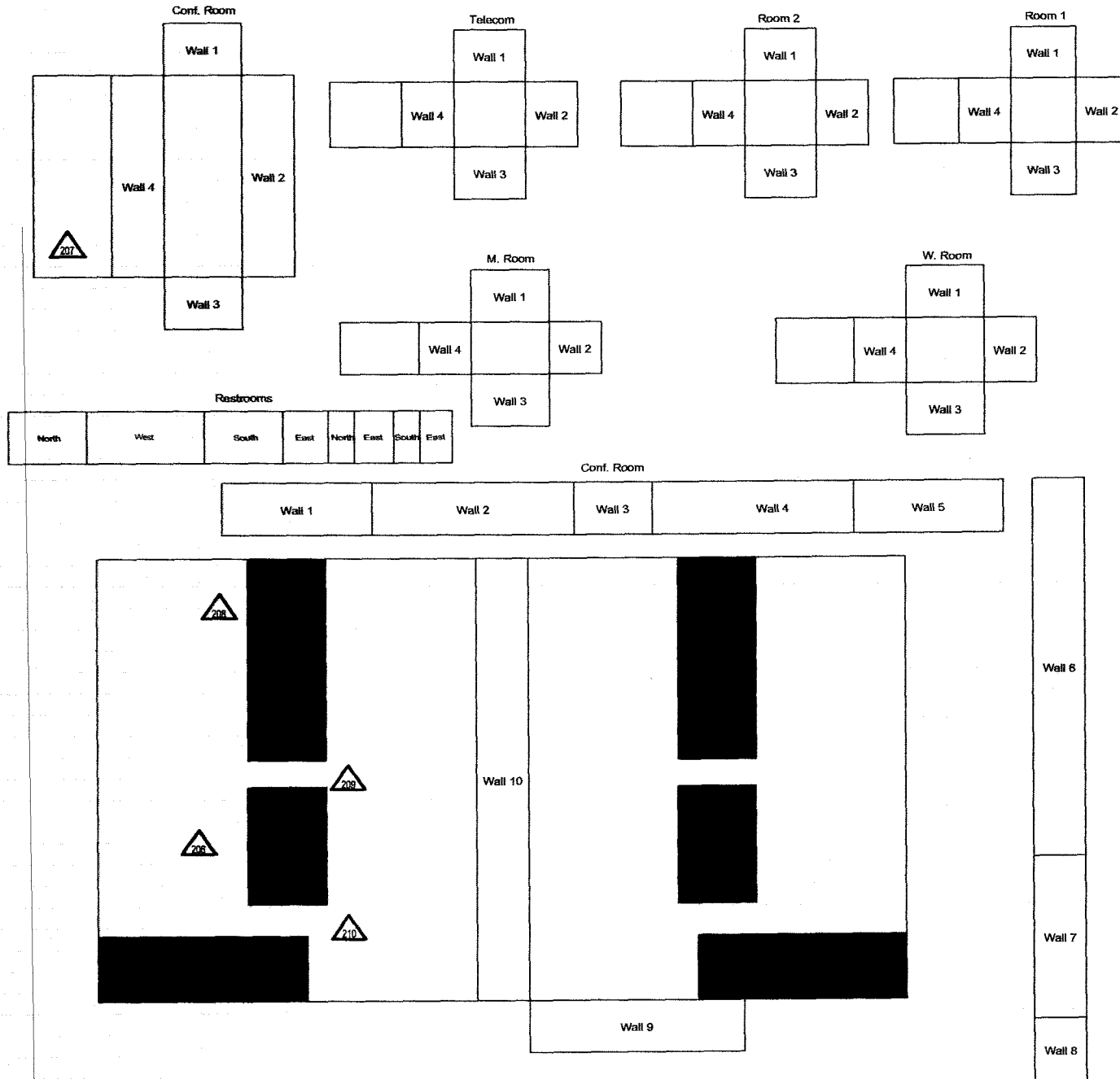
# PRE-DEMOLITION SURVEY

Survey Area: A Survey Unit: GR8-A-001 Classification: 3  
 Building: T886B  
 Survey Unit Description: Interior & Exterior of T886B  
 Total Area: 1928 sq. m. Total Floor Area: 366 sq. m.

## T886B Interior



T886B-00072001-315-206 Thru 210



<b>SURVEY MAP LEGEND</b> (A) Asbestos Sample Location (B) Beryllium Sample Location (L) Lead Sample Location (R) RCRA/CERCLA Sample Location (P) PCB Sample Location	Neither the United States Government nor Kaiser Hill Co., nor DynCorp LLC, nor any agency thereof, nor any employee, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.	N ↑	0 30 FEET 0 10 METERS 1 inch = 24 feet 1 grid sq. = 1 sq. m.	U.S. Department of Energy Rocky Flats Environmental Technology Site Prepared by: GHS Dept. 393-968-770 Prepared for: <b>DynCorp</b> THE ART OF TECHNOLOGY MAP ID: 1v2001/01-0555 May 9, 2001
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GR8-A-001

PAGE 1 OF 2

109  
 11/30/01



**Johns Manville Corporation**  
10100 West Ute Avenue (80127)  
P.O. Box 625005  
Littleton, CO 80162-5005  
Tel: (303) 978-3724

## COVER PAGE

June 15, 2001

Shelly Johnsen  
Rocky Flats Environmental Technology Site  
P.O. Box 464, Bldg. 881  
Golden, CO 80402-0464

**Laboratory Report ID:** 01061212  
**Laboratory Name:** Johns Manville IH Lab  
**Subcontract Number:** KH800188  
**RIN:** 01D0941  
**Requestor:** David Babbs  
**P.O./Charge Code:** EED60122

Dear Ms. Johnsen:

The Johns Manville Industrial Hygiene Laboratory has performed the following analytical testing services as requested. The results were calculated based upon the information supplied on the submission form. All laboratory data have been filed and are available upon request. The Johns Manville Laboratory is accredited by the American Industrial Hygiene association (AIHA) in the industrial hygiene program (Certificate #056), and participates in the AIHA ELPAT program.

If you have any questions, please call (303) 978-2584.

I certify that this electronic image, and all hardcopies produced from this image, accurately represents the data and is in compliance with the RFETS specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Sincerely,

**Scott Steiner**  
**Industrial Hygiene Project Manager**  
**June 15, 2001**

June 15, 2001

**Laboratory Report ID:** 01061212  
**Laboratory Name:** Johns Manville IH Lab  
**Subcontract Number:** KH800188  
**RIN:** 01D0941  
**Requestor:** David Babbs  
**P.O./Charge Code:** EED60122

**Scope of Work:**

Bottle Number(s)	Customer Number(s)	Laboratory ID Number(s)	Line Item Code	Sample Matrix	Instrument Run
01D0941-001.001	T886C06072001315-201	01061212-001	NR01A001	WIPE	QU010614-C
01D0941-002.001	T886C06072001315-202	01061212-002	NR01A001	WIPE	QU010614-C
01D0941-003.001	T886C06072001315-203	01061212-003	NR01A001	WIPE	QU010614-C
01D0941-004.001	T886C06072001315-204	01061212-004	NR01A001	WIPE	QU010614-C
01D0941-005.001	T886C06072001315-205	01061212-005	NR01A001	WIPE	QU010614-C
01D0941-006.001	T886B06072001315-206	01061212-006	NR01A001	WIPE	QU010614-C
01D0941-007.001	T886B06072001315-207	01061212-007	NR01A001	WIPE	QU010614-C
01D0941-008.001	T886B06072001315-208	01061212-008	NR01A001	WIPE	QU010614-C
01D0941-009.001	T886B06072001315-209	01061212-009	NR01A001	WIPE	QU010614-C
01D0941-010.001	T886B06072001315-210	01061212-010	NR01A001	WIPE	QU010614-C





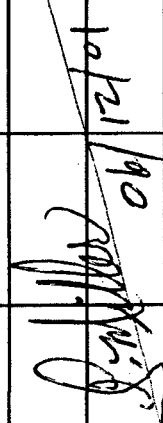
Commodore Advanced  
Sciences, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

01D0941#001

Page 2 of 2

RIN 01D0941		Contact/Requestor JOHNSEN, SHELLY		Telephone No. 6401												
Bottle No.	Customer Number	Matrix	Date	Time	Location	Container (size/type/quantity)	Sample Analysis	Preservative ; Packing								
01D0941-008.001	T886B060720013 15-208	FILTER	06/07/2001	7:04 AM	T886 B	1-FILTER / N/A / 1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None								
01D0941-009.001	T886B060720013 15-209	FILTER	06/07/2001	7:00 AM	T886 B	1-FILTER / N/A / 1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None								
01D0941-010.001	T886B060720013 15-210	FILTER	06/07/2001	7:00 AM	T886 B	1-FILTER / N/A / 1	NR01A001 (Beryllium Filter Analysis) [Routine]	N/A None								
<div style="text-align: center;"></div>																
Relinquished By: <i>Shore 6/14/01 1208</i>		Date/Time	Received By: <i>P. J. J. 4/12/01 1208</i>		Date/Time	Relinquished By:		Date/Time								
Relinquished By:		Date/Time	Received By:		Date/Time	Relinquished By:		Date/Time								

## NARRATIVE

The laboratory did not encounter any problems or questions associated with the receipt of samples into the laboratory. All samples identified on the Chain-of-Custody (COC) form were received and accepted in good condition with tamper-resistant seals intact. (1.d, 4.b, 4.e)

Whatman 4 or Whatman 41 swipe samples were submitted in this project and analyzed for the identification and quantitation of beryllium in accordance with Line Item Code (LIC), NR01A001. The methodology does not define any required specific holding times for the compound on the sampling media. Results of the sample analyses were generated and reported by the specified turn-around time (TAT). (4.f, 5.6, 5.f, 6.b.7)

The laboratory preparation of samples in this project was performed following laboratory Standard Operating Procedure (SOP), IH M-1.02, Revision N. Additional references to the preparation technique of this sample type are addressed in EPA Method, 3015A and CEM Application Procedure, MS-9. The samples were prepared using the CEM Microwave Sample Preparation System, Model MDS 2000. The instrumental sample analysis for these samples follows SOP, IH M-1.04, Revision N, which covers the analytical procedure outlined in OSHA method, ID-125G. Start-up and calibration of the Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) instrument are performed following manufacturer's instructions and are addressed in SOP, IH M-1.03, Revision N. (5.a)

Results of all calibration verifications (initial and continuing), method blanks (calibration and matrix), Laboratory Control Samples (LCSs), Laboratory Control Sample Duplicates (LCDs) and internal QA/QC program monitoring standards for this analytical batch are within acceptable limits as specified in Statement of Work (SOW) modules, GR01-B.3 and NR01-A. (5.c, 5.d.2, 5.d.3, 6.b.2-6)

The internal quality control procedures for statistical monitoring of analytical data to ensure the production of quality results with continuing high validity are addressed in the JMTC IH Laboratory Quality Assurance Manual, Section 10.0. Results of all method-specific QC assessments for this analytical batch are within acceptable limits in accordance with SOW modules, GR01-B.3 and NR01-A. (5.c, 6.b.1)

The Instrument Detection Limit (IDL) has been determined to be 0.00028 µg/ml using the ICP-AES instrument, Perkin Elmer - Optima model 3000DV. Method Detection Limit (MDL) determinations are performed in accordance with the EPA Method contained in 40 CFR Part 136, Appendix B. The MDL for beryllium on the Whatman swipe matrix by ICP-AES has been determined to be 0.012 µg/swipe. These values meet the required detection limits for SOW module, NR01-A. (5.d.1) The sample batch did not require any sample re-analyses due to dilutions or any anomalies. (5.d) The qualifiers used for the results page are "U" for non-detect and "J" for levels greater than the MDL, but less than the Reporting Limit.

The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate N. 056) and continues to rate proficient within the Proficiency Analytical Testing (PAT) program. This program is designed for laboratories involved in analyzing samples taken in the workplace environment. The JMTC IH Analytical Laboratory is also accredited in the Environmental Lead Laboratory Accreditation Program (ELLAP), which is recognized by the EPA National Lead Laboratory Accreditation Program (NLLAP). This program accredits and monitors performance of laboratories testing for lead in environmental samples such as paint, soil, dust wipes and air. (5.a)

June 15, 2001

Laboratory Report ID 01061212  
Laboratory Name: Johns Manville IH Lab  
Subcontract Number: KH800188  
RIN: 01D0941  
Requestor: David Babbs  
P.O./Charge Code: EED60122

## QUICK RESULTS SUMMARY

Customer Number	Laboratory ID Number	Requested Analysis	Reporting Limit	CONCENTRATION			Q	Air Vol or Time	Air Concentration
				Back Section	Front Section	Total			
T886C06072001315-201	01061212-001	Beryllium	0.1 µg			<0.1 µg	U		
T886C06072001315-202	01061212-002	Beryllium	0.1 µg			<0.1 µg	U		
T886C06072001315-203	01061212-003	Beryllium	0.1 µg			<0.1 µg	U		
T886C06072001315-204	01061212-004	Beryllium	0.1 µg			<0.1 µg	U		
T886C06072001315-205	01061212-005	Beryllium	0.1 µg			<0.1 µg	U		
T886B06072001315-206	01061212-006	Beryllium	0.1 µg			<0.1 µg	U		
T886B06072001315-207	01061212-007	Beryllium	0.1 µg			<0.1 µg	U		
T886B06072001315-208	01061212-008	Beryllium	0.1 µg			<0.1 µg	U		
T886B06072001315-209	01061212-009	Beryllium	0.1 µg			<0.1 µg	U		
T886B06072001315-210	01061212-010	Beryllium	0.1 µg			<0.1 µg	U		

June 15, 2001

Laboratory Report ID 01061212  
Laboratory Name: Johns Manville IH Lab  
Subcontract Number: KH800188  
RIN: 01D0941  
Requestor: David Babbs  
P.O./Charge Code: EED60122

## QC RESULTS SUMMARY

QC Parameter	QC Item Type	Compound	Expected Recovery	Actual Recovery	Percent Recovery	QC Sample ID	Date Analyzed	Instrument Run
Preparation Blank	PB1	Beryllium	< 0.1 µg	<0.1 µg	N/A		6/15/01	QU010614-C
Matrix Blank	MB1	Beryllium	< 0.1 µg	<0.1 µg	N/A		6/15/01	QU010614-C
Matrix Blank Spike	MS1	Beryllium	5.0 µg	5.24 µg	104.8		6/15/01	QU010614-C
Laboratory Control Sample	LC1	Beryllium	8.0 µg	7.91 µg	98.9	QC01061251	6/15/01	QU010614-C
Laboratory Control Duplicate	LC1a	Beryllium	8.0 µg	7.90 µg	98.8	QC01061251	6/15/01	QU010614-C
Preparation Blank	PB2	Beryllium	< 0.1 µg	<0.1 µg	N/A		6/15/01	QU010614-C
Laboratory Control Sample	LC2	Beryllium	12.0 µg	12.1 µg	100.8	QC01061252	6/15/01	QU010614-C
Laboratory Control Duplicate	LC2a	Beryllium	12.0 µg	12.1 µg	100.8	QC01061252	6/15/01	QU010614-C

# Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

Safety and Hygiene Chain of Custody Record and Analysis Request

RFP F 3791.32 (7/95)  
Formerly RF-47530

RIN # 0150942

Name of Originator: <u>David Dabbs</u>		Title: <u>IHS</u>		Bldg/Ext: <u>7117A/4717</u>		Date: <u>6/8/01</u>		Page <u>1</u> of <u>1</u>	
SAMPLE NUMBER Bldg/Y/M/D/P#/#	ANALYZE FOR	VOLUME liters	SAMPLE TIME/	MEDIA	P A (B) Bulk	Personal Area	REMARKS	Lab Number	
T886C-06072001-315-101	<u>Asbestos</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>B</u>		<u>IH02-B004</u>		
T886C-06072001-315-102									
T886C-06072001-315-103									
T886C-06072001-315-104									
T886C-06072001-315-105									
T886C-06072001-315-106									
T886C-06072001-315-107									
T886B-06072001-315-108									
T886B-06072001-315-109									
T886B-06072001-315-110									
T886B-06072001-315-111									
T886B-06072001-315-112									
T886B-06072001-315-113									
T886B-06072001-315-114									
T886B-06072001-315-115									
T886B-06072001-315-116									
Relinquished by <u>David Dabbs</u>		Received by <u>[Signature]</u>	Time/Date <u>1534 6/11/01</u>	Relinquished by	Received by	Time/Date			
Relinquished by		Received by	Time/Date	Relinquished by	Received by	Time/Date			
Relinquished by		Received by	Time/Date	Relinquished by	Received by	Time/Date			
Relinquished by		Received by	Time/Date	Relinquished by	Received by	Time/Date			
Report and Billing Instruction				Analysis Request				Seal# (Release #)	
Kaiser-Hill <input checked="" type="checkbox"/>	Verbal To: <u>D. Dabbs</u>	Industrial Hygiene Sample		Condition of Seal:		<input type="checkbox"/> Broken <input type="checkbox"/> Unbroken			
RMRS <input type="checkbox"/>	Fax To: <u>6678</u>	<input type="checkbox"/> Standard Service <input type="checkbox"/> Rush		Signature: _____		Comments: _____			
SSOC <input type="checkbox"/>	Report To: <u>KH</u>	<input type="checkbox"/> Asbestos Samples <input type="checkbox"/> Other		Signature: _____		Comments: _____			
DynCorp <input type="checkbox"/>	Bill To: <u>KH</u>	<input type="checkbox"/> Standard Service <input checked="" type="checkbox"/> Rush		Signature: _____		Comments: _____			
WSI <input type="checkbox"/>	P.O.#/Release: <u>EED60122</u>	<input type="checkbox"/> Standard Service <input type="checkbox"/> Rush		Signature: _____		Comments: _____			
Lab: <u>Reserve</u>									

White - Return to Originator Yellow - Lab Copy Green - Sample Custodian Blue - Originator

## Rocky Flats Environmental Technology Site

10808 Hwy 93 Golden, CO 80403-8200

# Safety and Industrial Hygiene Chain of Custody Record and Analysis Request

**RIN #**

PRE #

[illegible]

White - Return to Originator    Yellow - Lab Copy    Pink - Sample Custodian    Gold - Originator

1. *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl a is essential for the light-dependent reactions of photosynthesis, where it converts light energy into chemical energy in the form of ATP and NADPH.

[illegible]

**Blue - Originator**

RIN# 01D0941

[illegible]

White - Return to Originator	Yellow - Lab Copy	Green - Sample Custodian	Blue - Originator
------------------------------	-------------------	--------------------------	-------------------



**RIN**

**PRE #**

Very Much

[illegible]

White - Return to Originator      Yellow - Lab Copy      Pink - Sample Custodian Gold - Originator

cb

COPY



Property



Waste



Sample

## RELEASE EVALUATION FORM

Page 1 of 2

Release Evaluation No. 010611-00116-001 EXTENDED: NO EXPIRES: N/A Charge No.: N/A

## PART I

## SENDER/CUSTODIAN ACKNOWLEDGEMENT

**Description of Property/Waste/Sample To Be Released/Transferred:** Five (Qty. 5) Beryllium characterization swipe samples obtained for Be analysis in T886C. Sample #'s are as follows: T886C-06072001-315-201, T886C-06072001-315-202, T886C-06072001-315-203, T886C-06072001-315-204, & T886C-06072001-315-205.

**Current Location:** Building T117A

**Destination:** John Mansville Technical Center, PO Box 625005, Littleton, CO 80162-5005

**New Recipient/Custodian:** Same as above

**History/Process Knowledge:** Swipe samples came from the interior surfaces of T886C. Process knowledge and site documents indicate this facility has never been posted as a CA/RBA. The facility has served as an administrative area.

1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate.

2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation.

Sender/Custodian: David Babbs/ DA-34355 Emp. No. [REDACTED] Date: 6/4/01 Ext: 4717

## PART II

## RADIOLOGICAL ENGINEERING

## SPECIFIC REQUIREMENTS AND/OR COMMENTS:

*The samples specified above have been reviewed by Radiological Engineering and process knowledge indicates that there are no radiological concerns. All facility documentation, including the associated WSRIC, verify no radiological concerns. As a result, **NO RADIOLOGICAL SURVEYS ARE REQUIRED** prior to transfer to the receiving laboratory.*

*Custodian: Ensure only indicated samples are delivered to the new custodian for beryllium analysis. Notify appropriate personnel for coordination of sample acceptance by the appropriate custodian.*

***This is an unrestricted release.***

Evaluated: Jay M. Britten / [Signature] Emp. No. [REDACTED] Date: 6/11/01 Ext: 3050  
Radiological Engineer

## APPROVAL FOR TRANSFER/SHIPMENT

Approved: Jay M. Britten / [Signature] Emp. No. [REDACTED] Date: 6/11/01 Ext: 3050  
Radiological Engineer

**PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS****Release Evaluation #:** 010611-00116-001**Page 2 of 2****Release Evaluation for Waste:**

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

**Release Evaluation for Property:**

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature. For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE. In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history.

**Release Evaluation for Samples:**

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

*"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."*

**Additional Documentation:**

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page \_\_ of \_\_, initials of Radiological Engineer signing approval for transfer/shipment and date.